

1/48

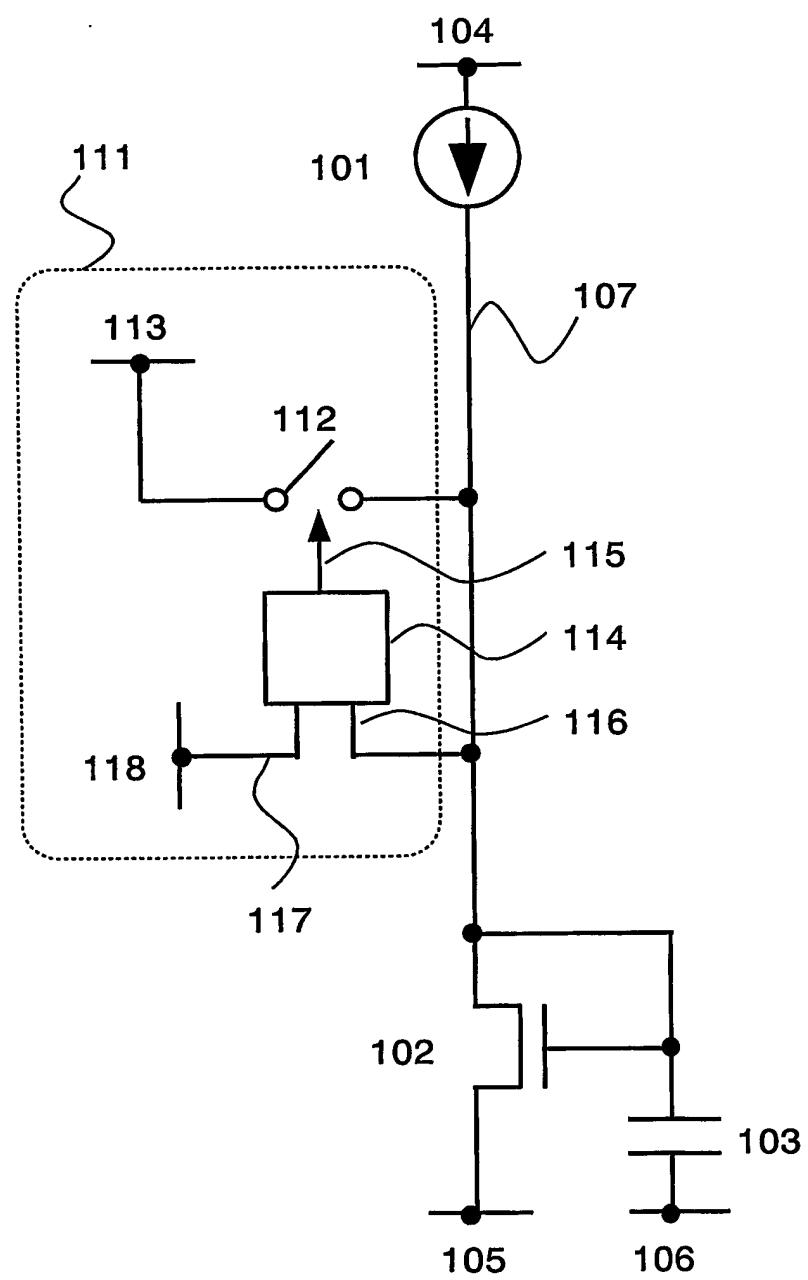


FIG. 1

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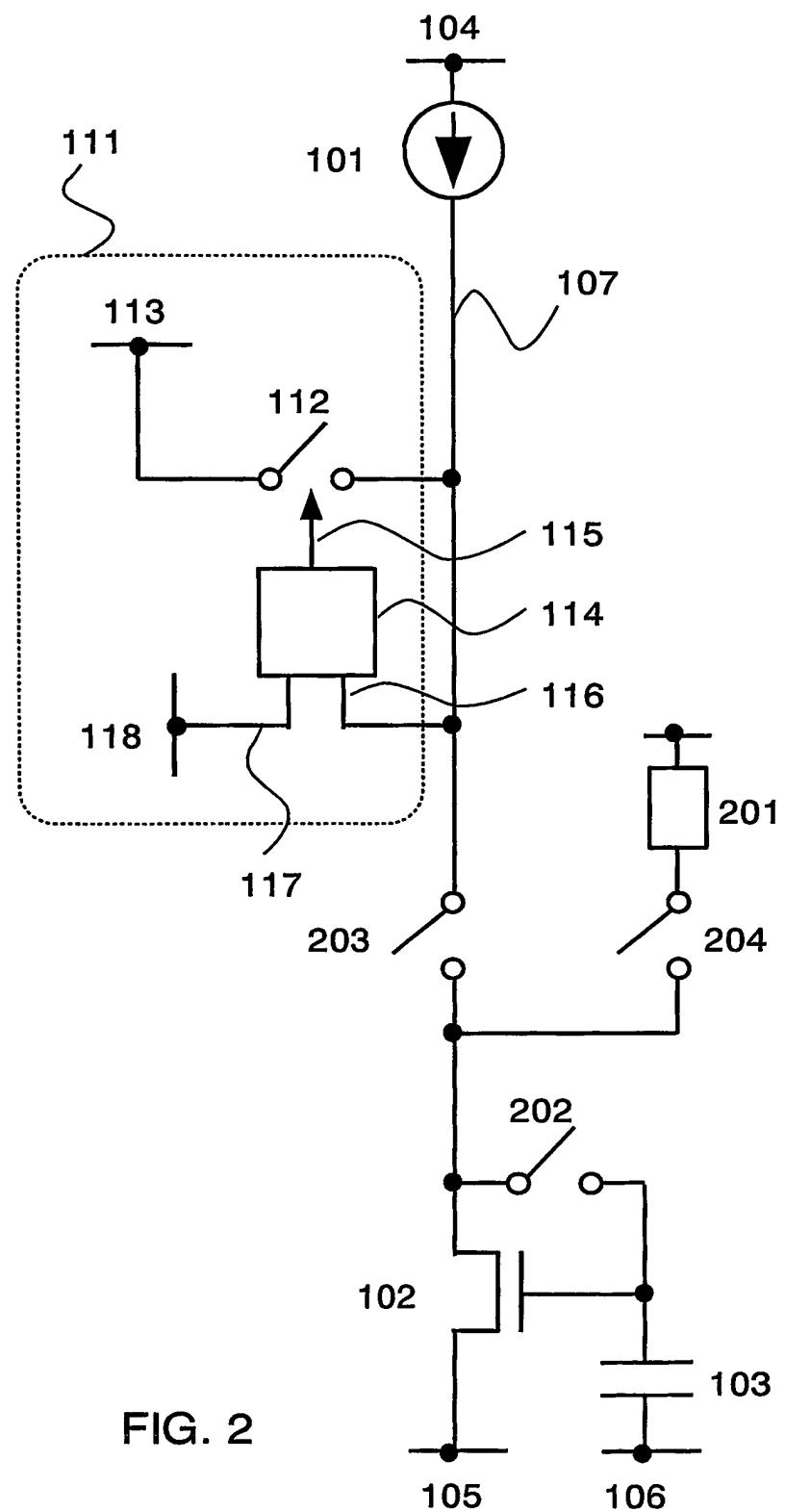


FIG. 2

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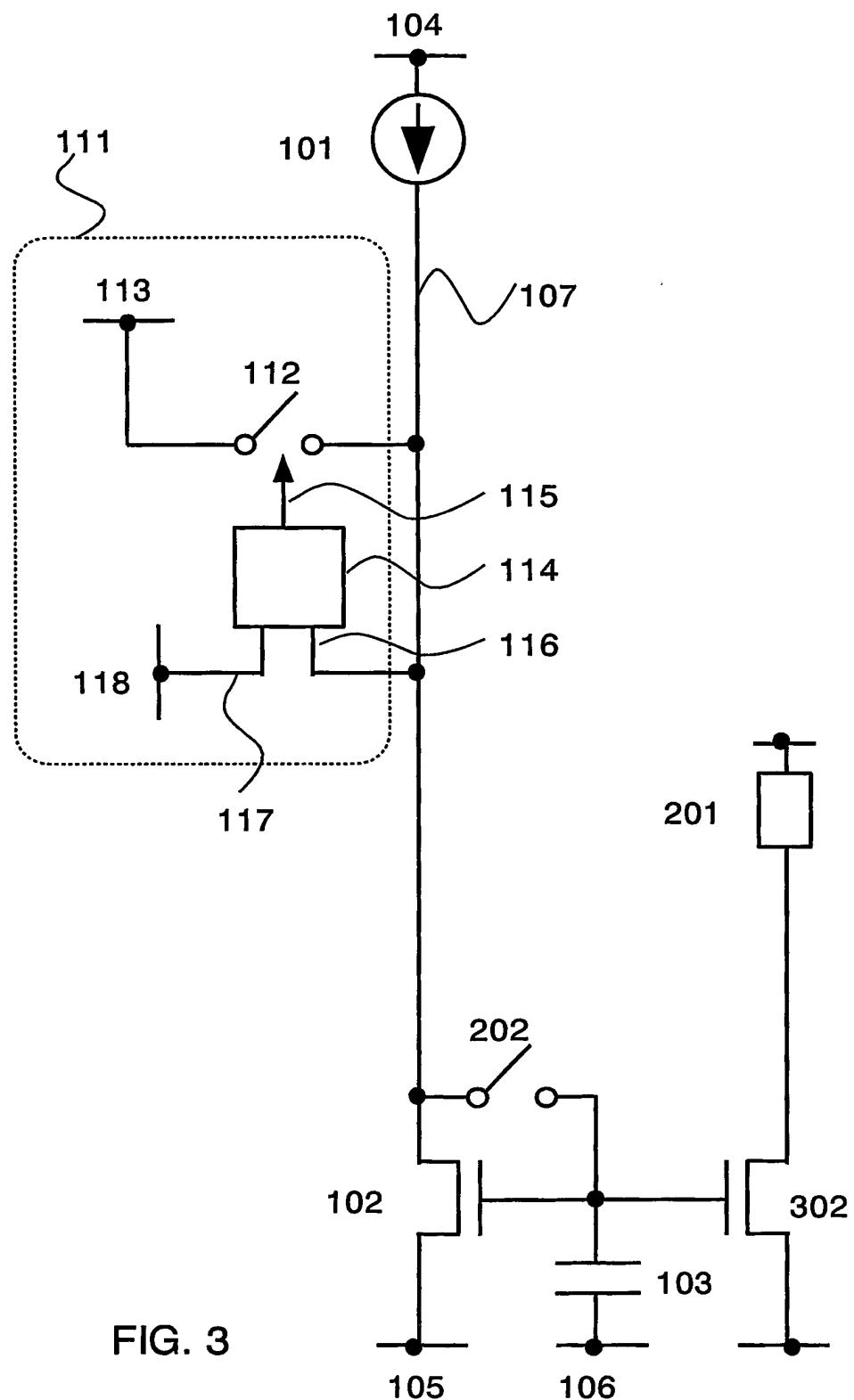


FIG. 3

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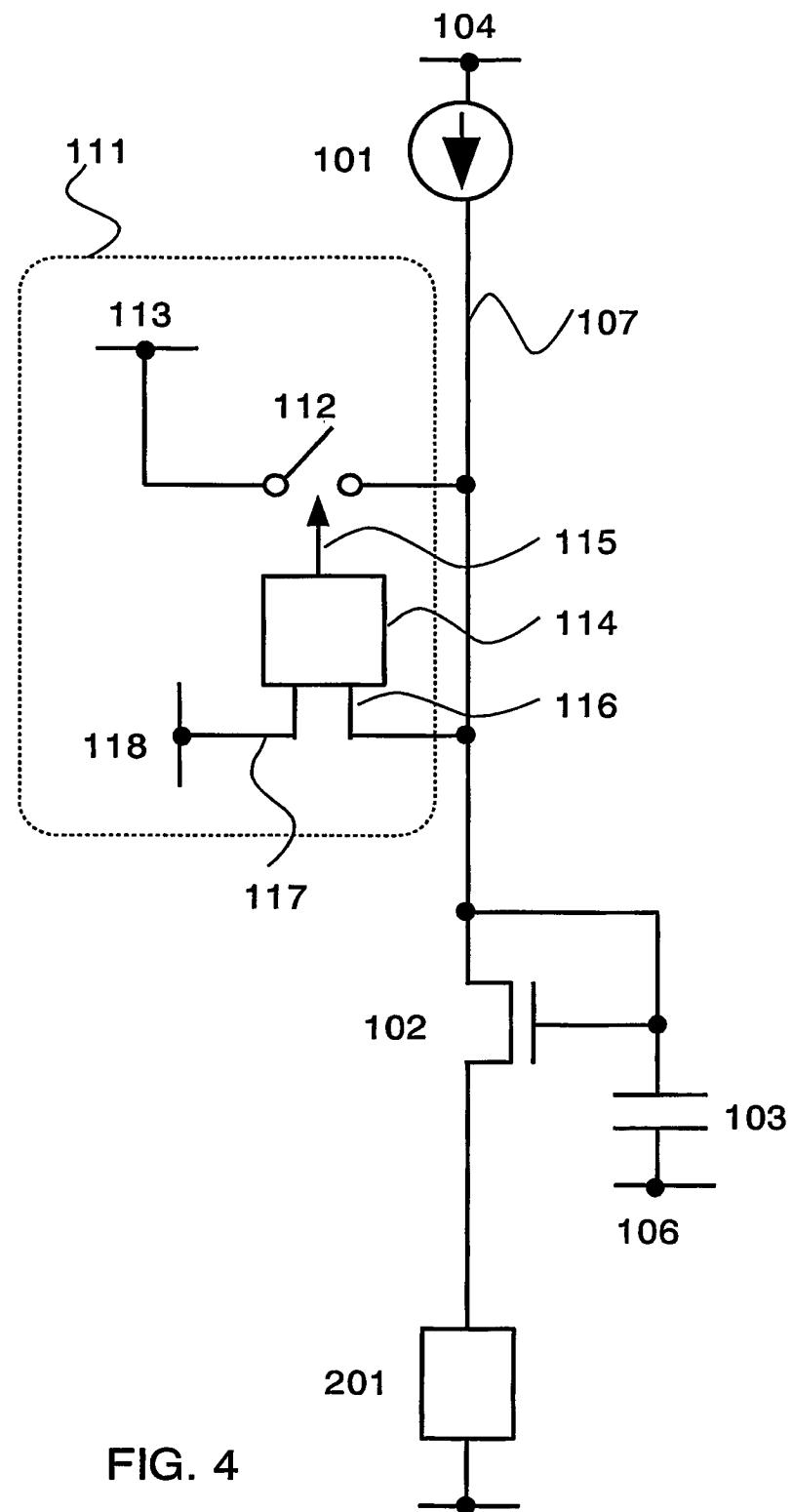


FIG. 4

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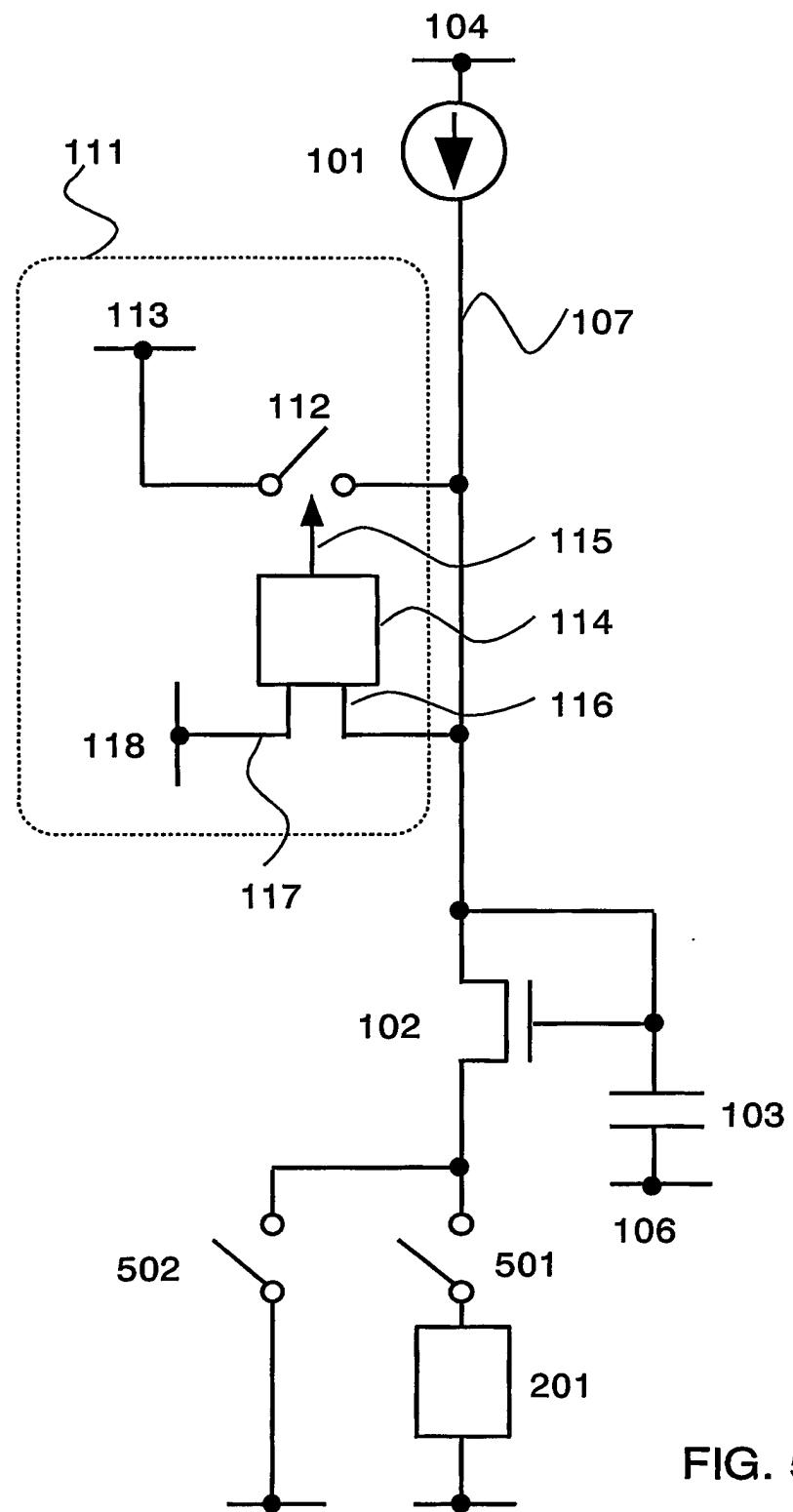


FIG. 5

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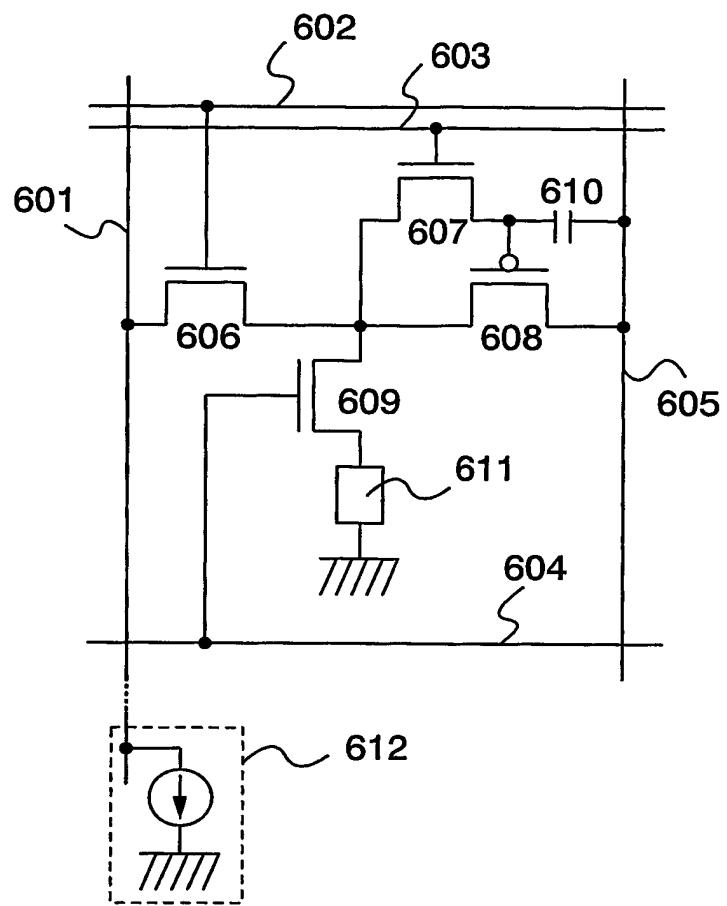
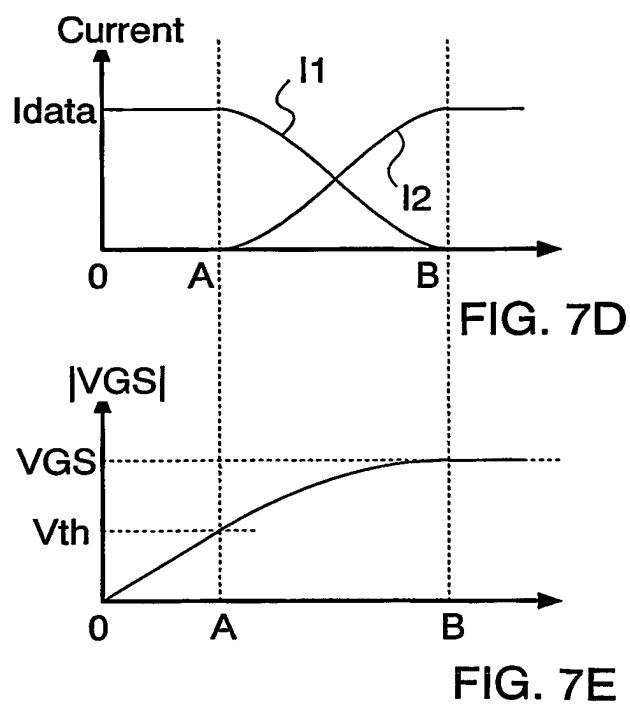
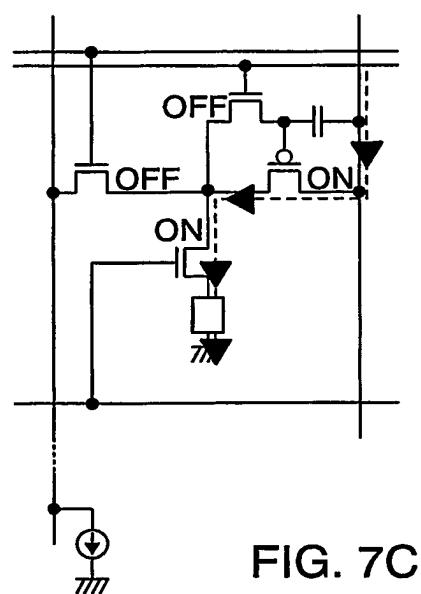
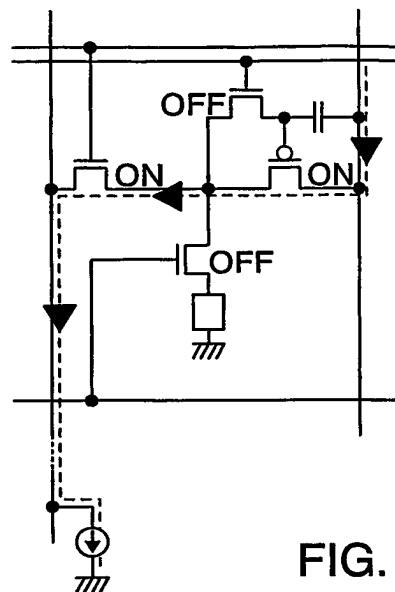
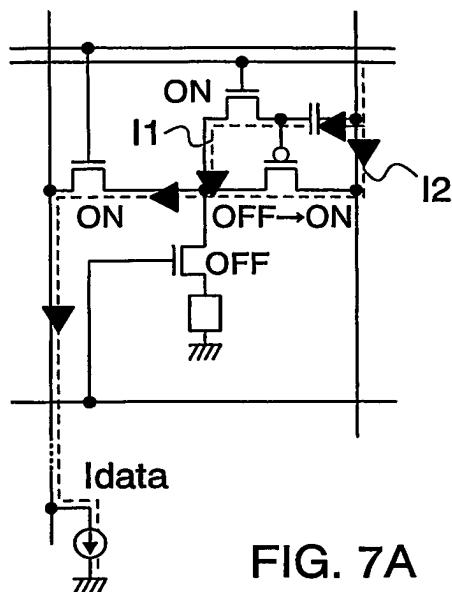
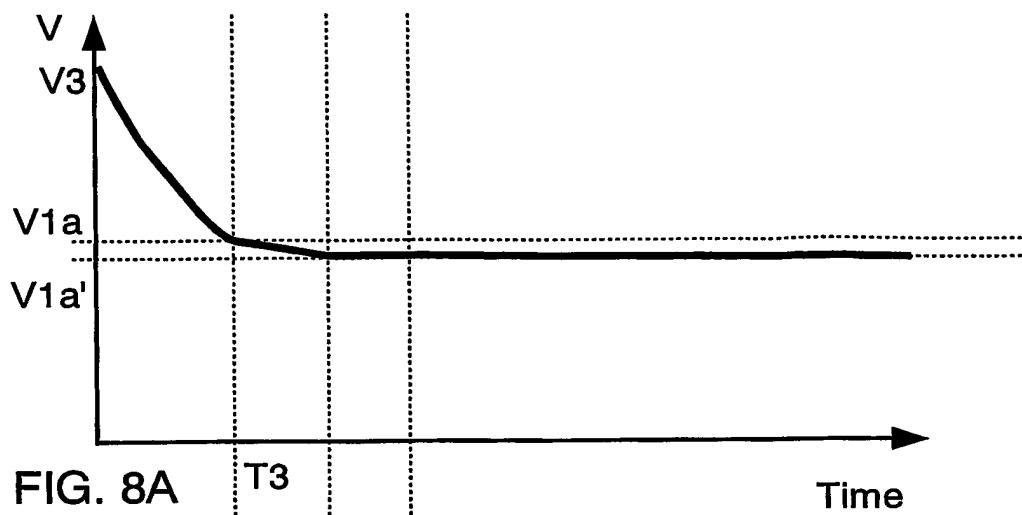
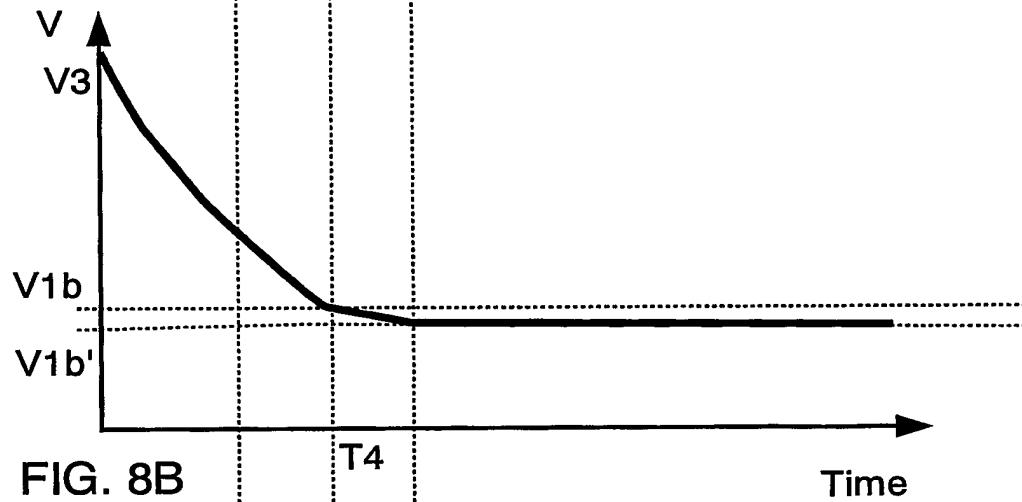
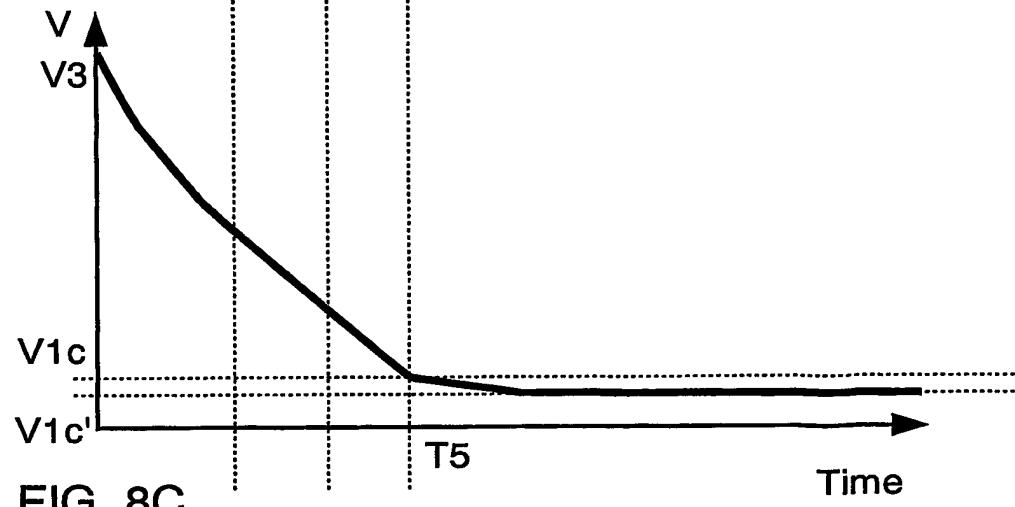


FIG. 6

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FIG. 8A  $T_3$   $T_4$  TimeFIG. 8B  $T_4$  TimeFIG. 8C  $T_5$   $T_6$  Time

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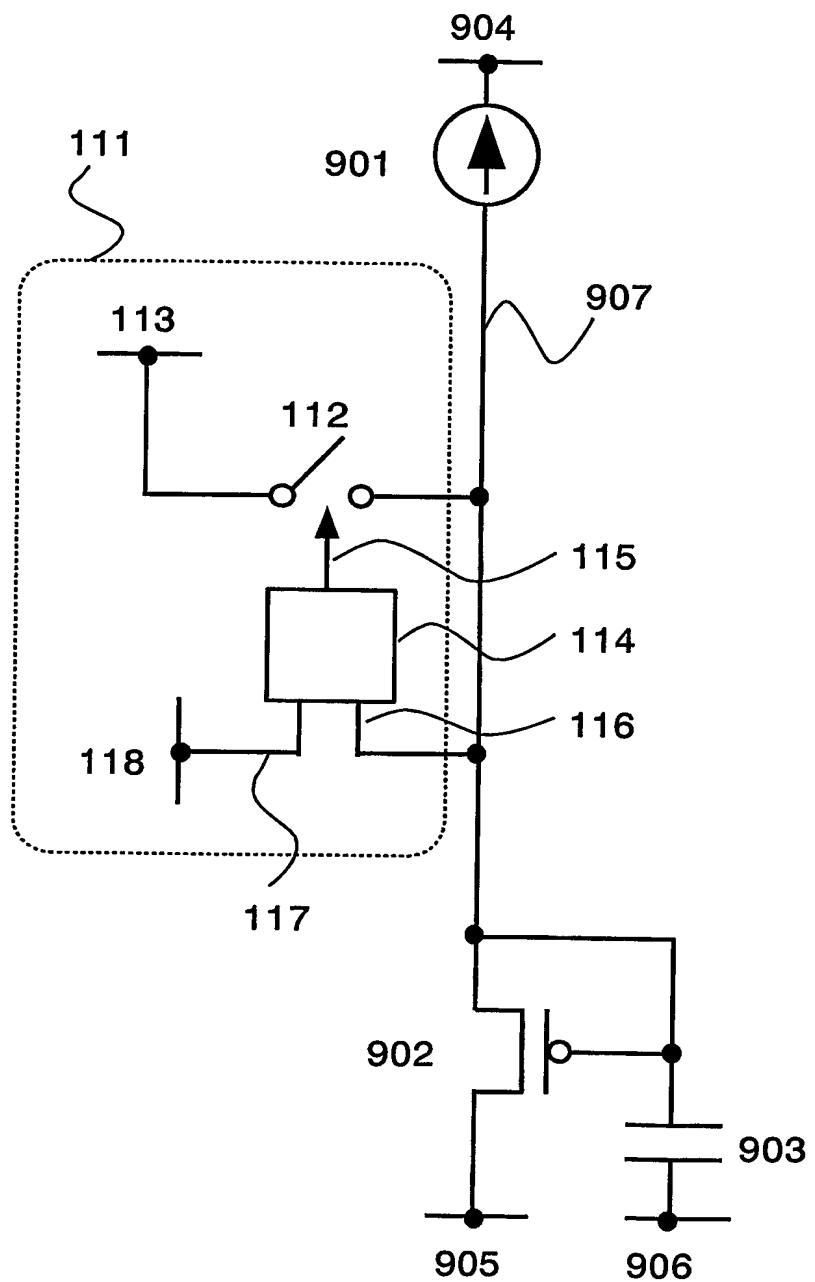


FIG. 9

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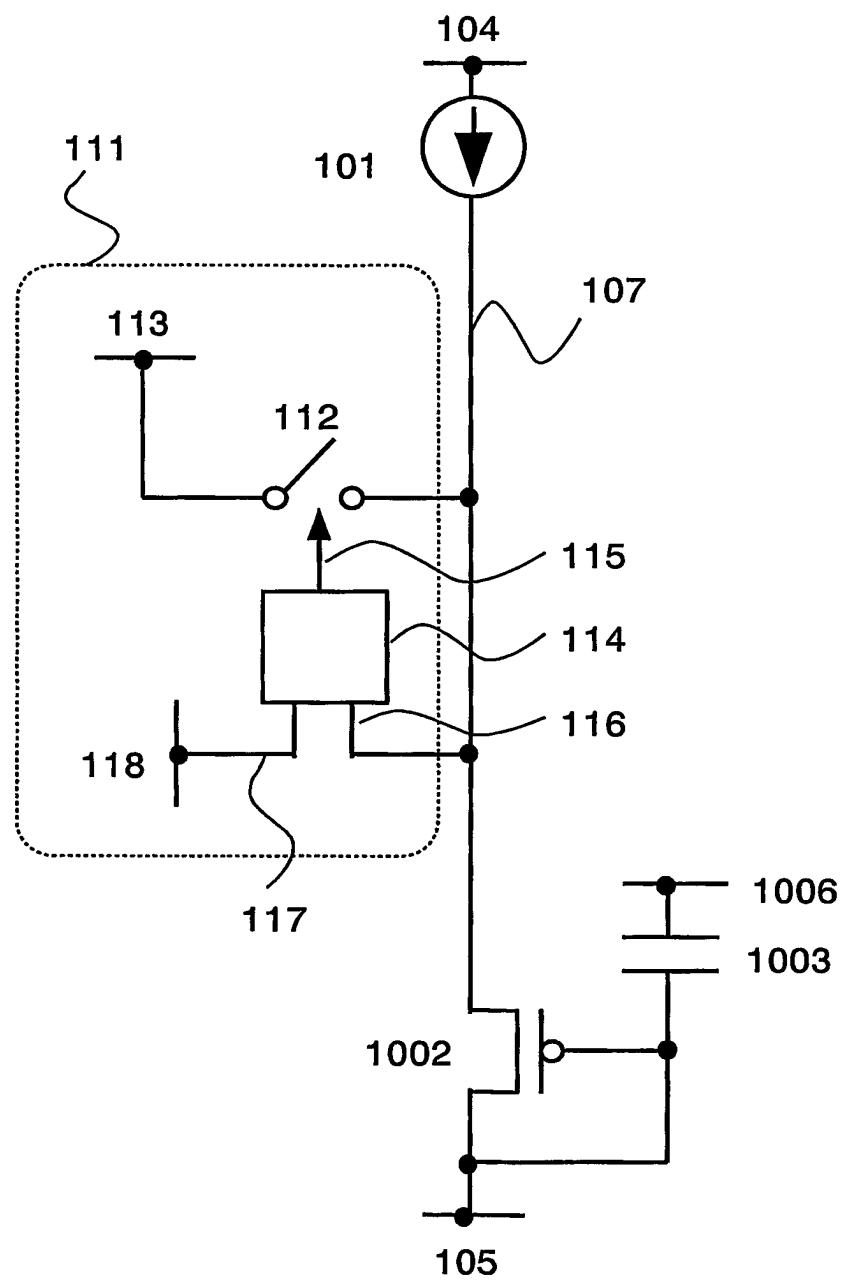


FIG. 10

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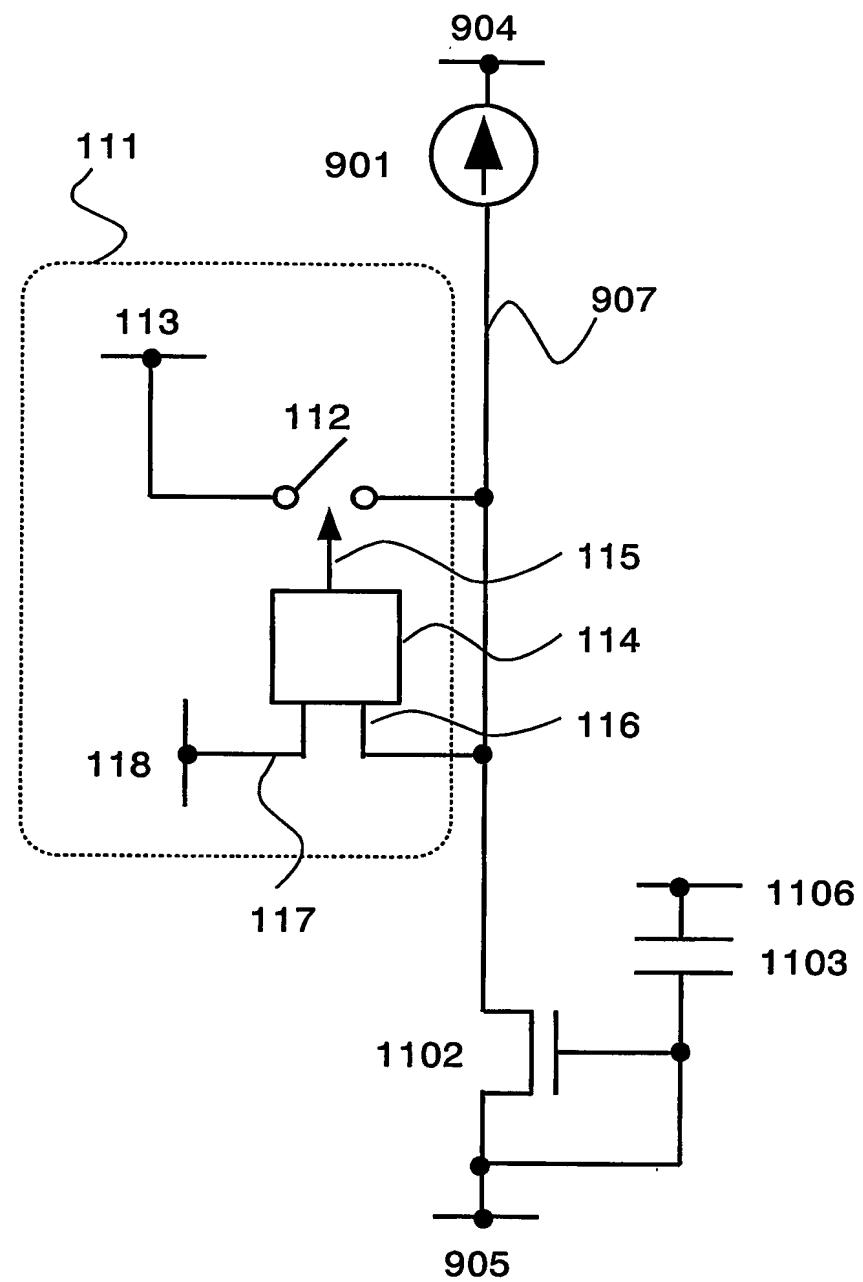


FIG. 11

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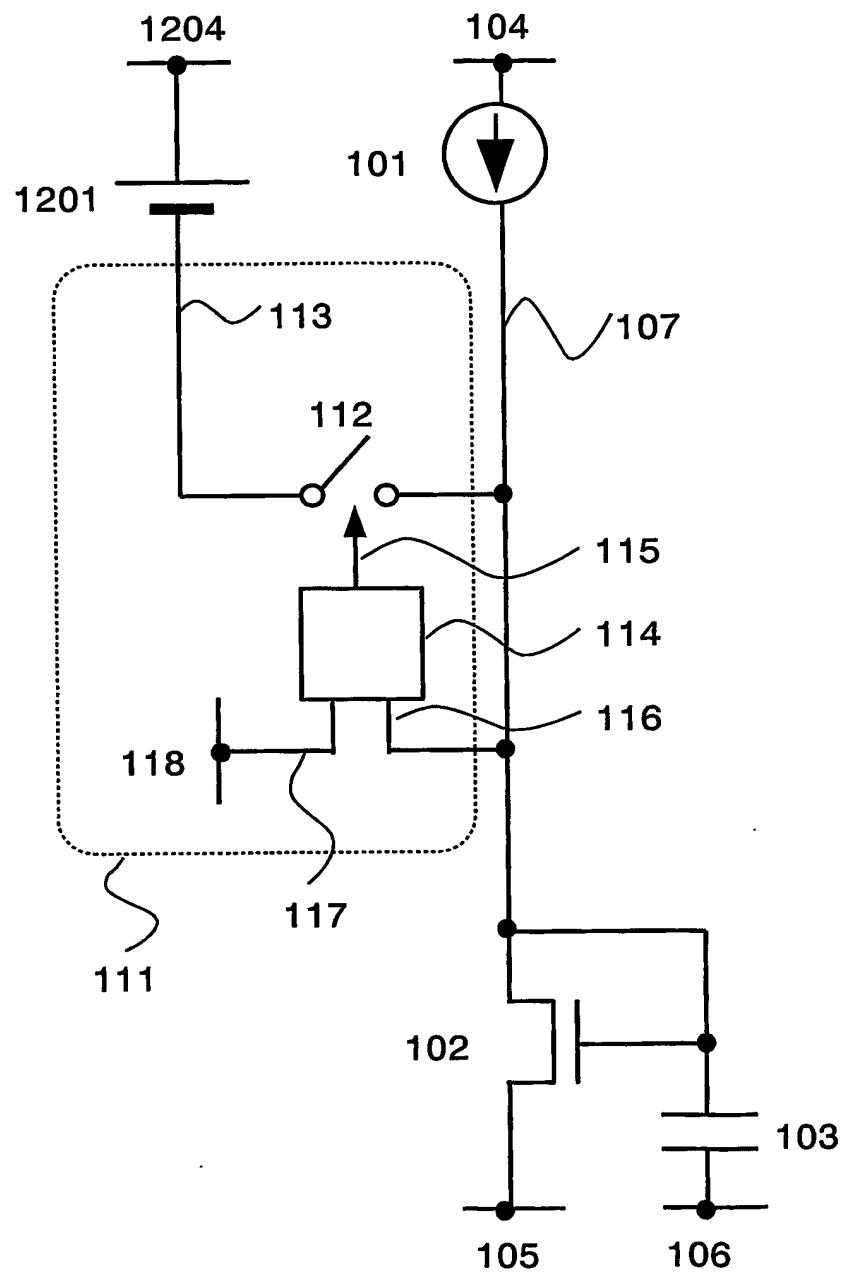


FIG. 12

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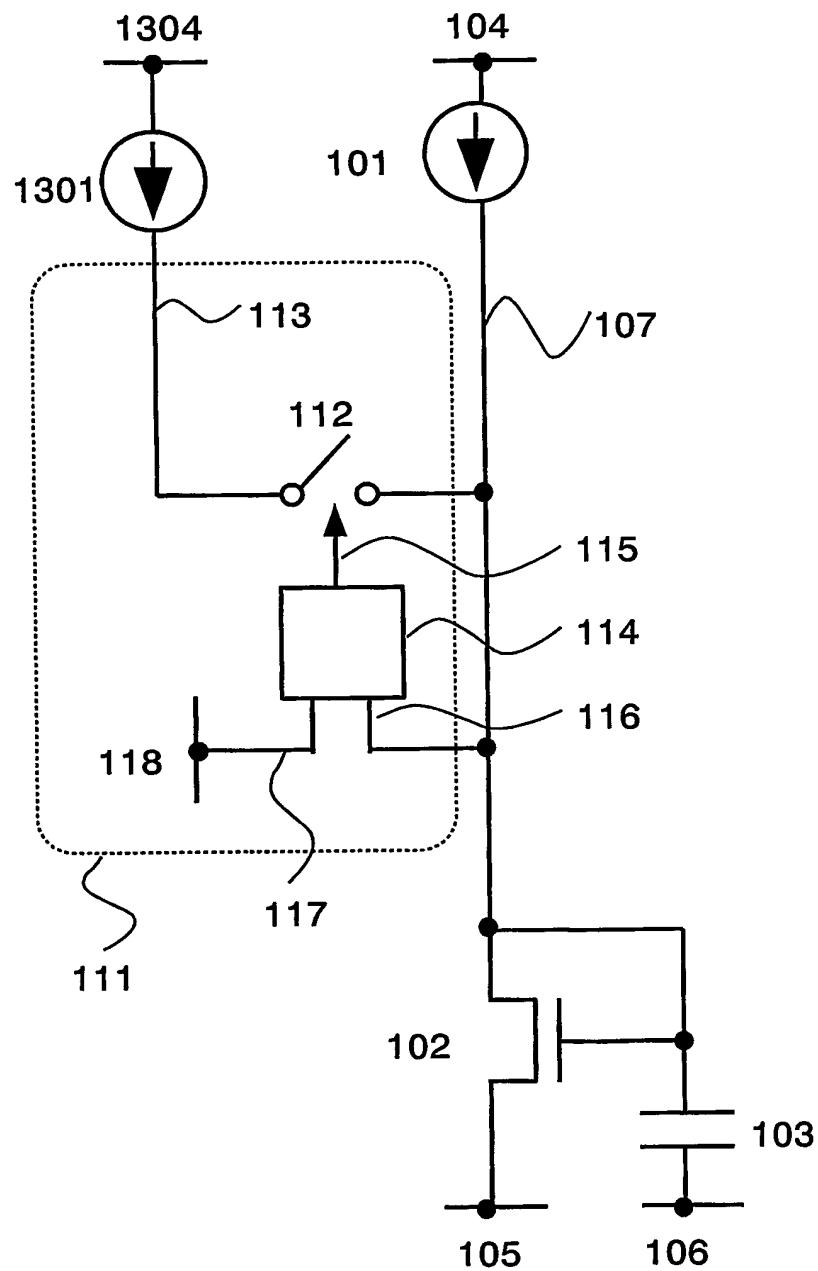


FIG. 13

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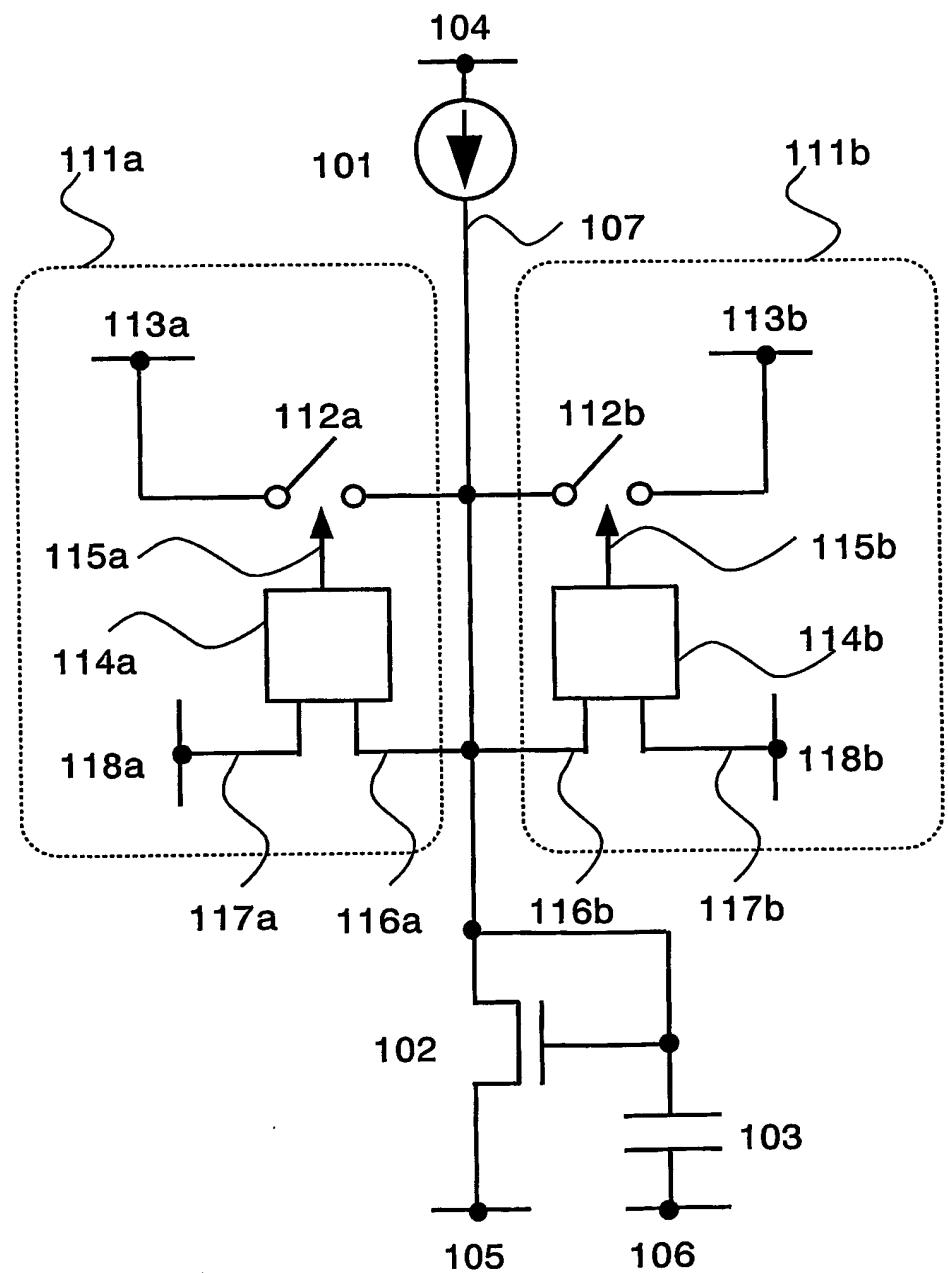


FIG. 14

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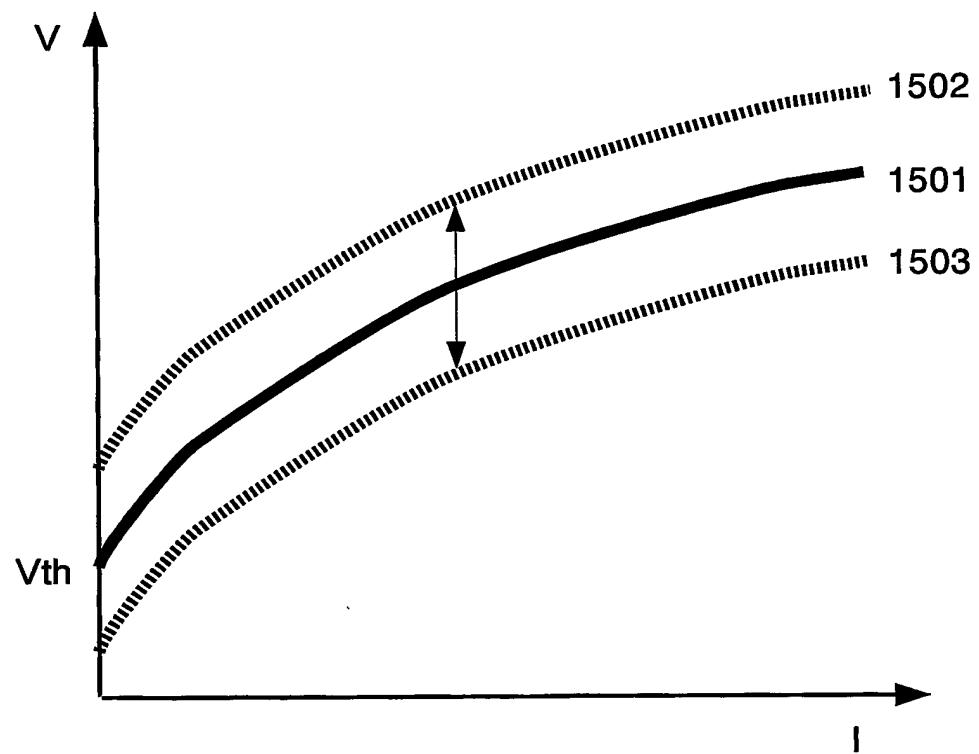


FIG. 15

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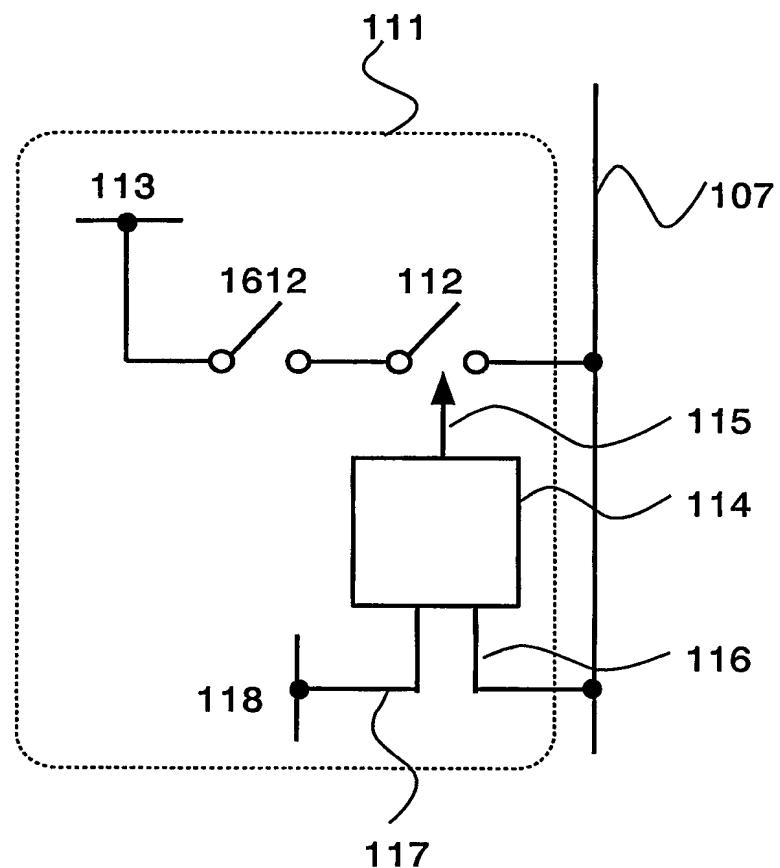


FIG. 16

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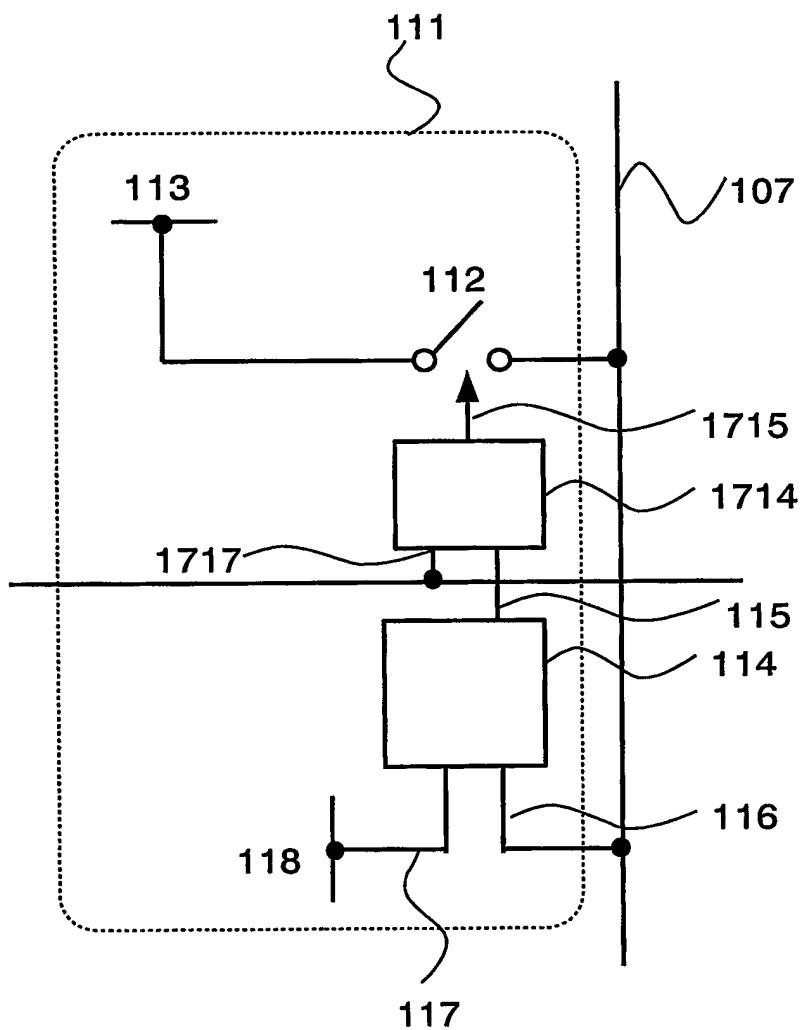


FIG. 17

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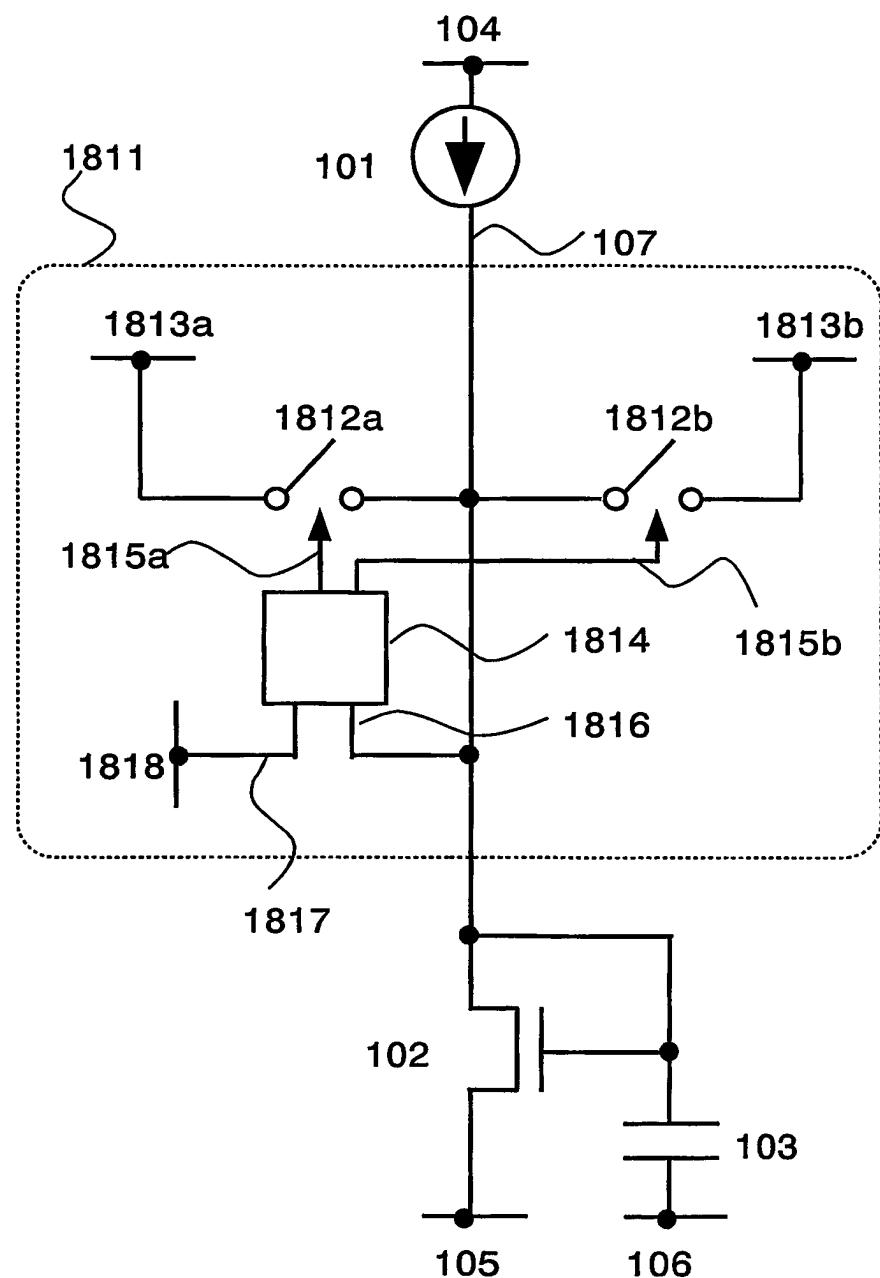


FIG. 18

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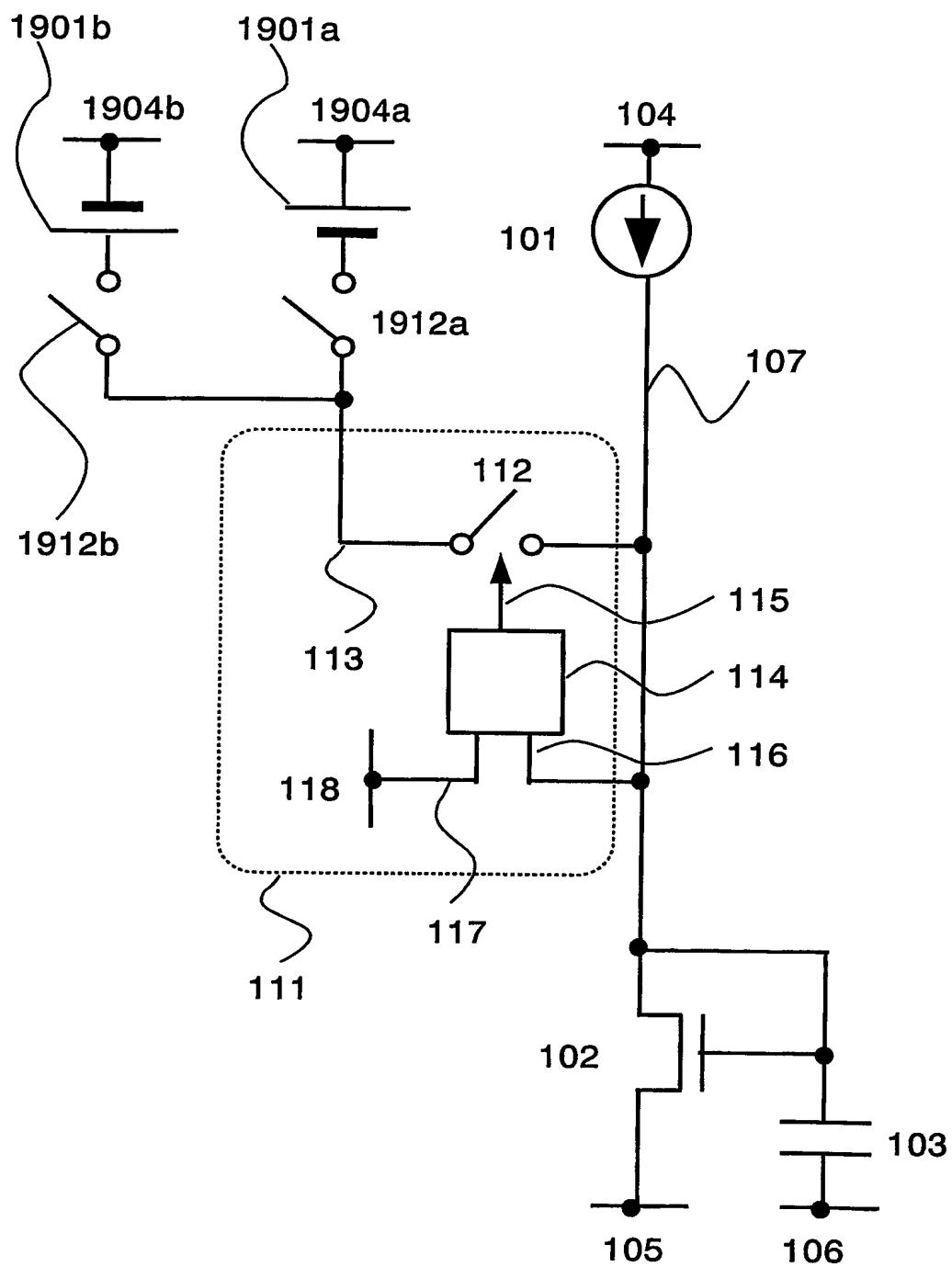


FIG. 19

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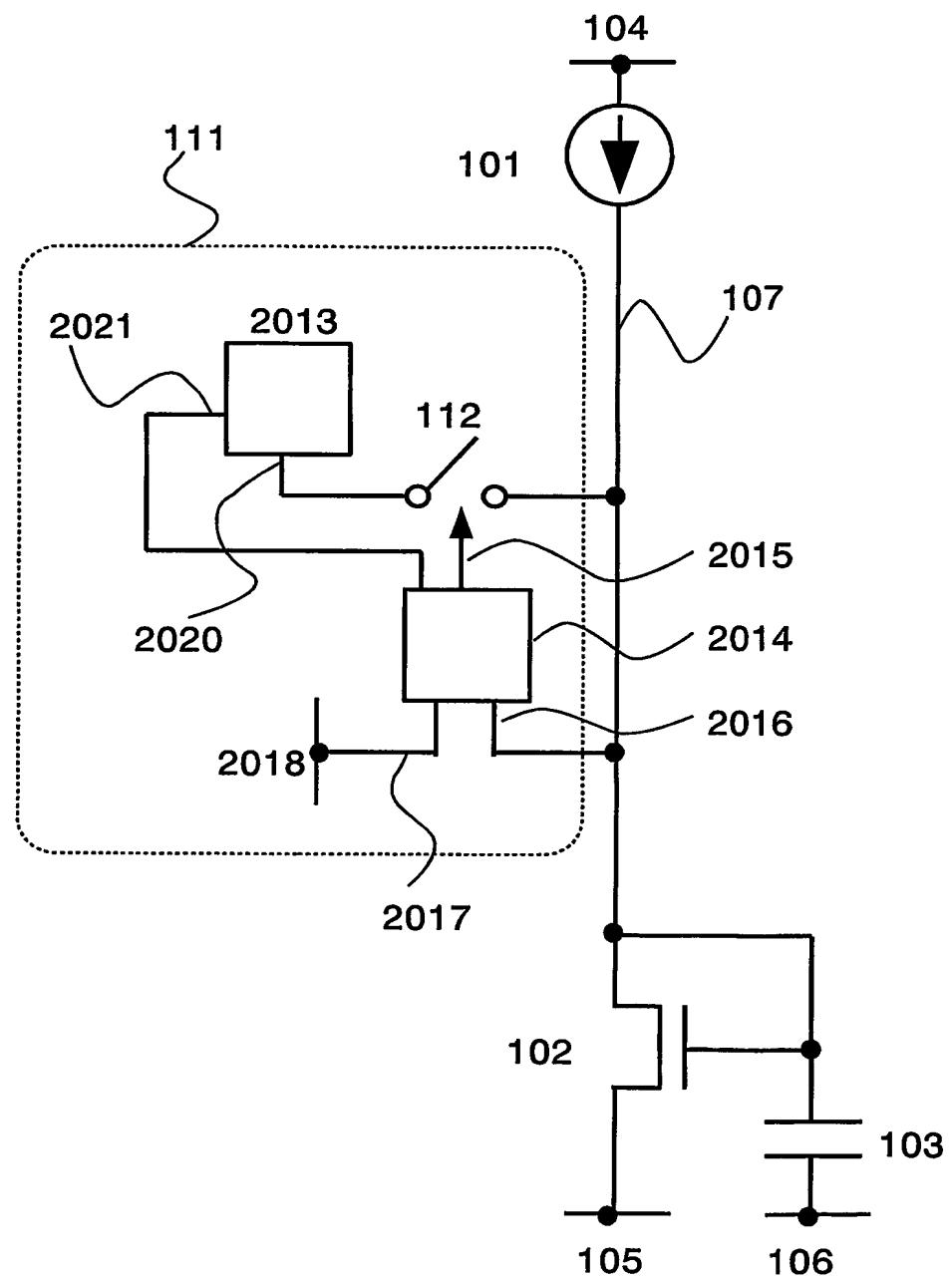


FIG. 20

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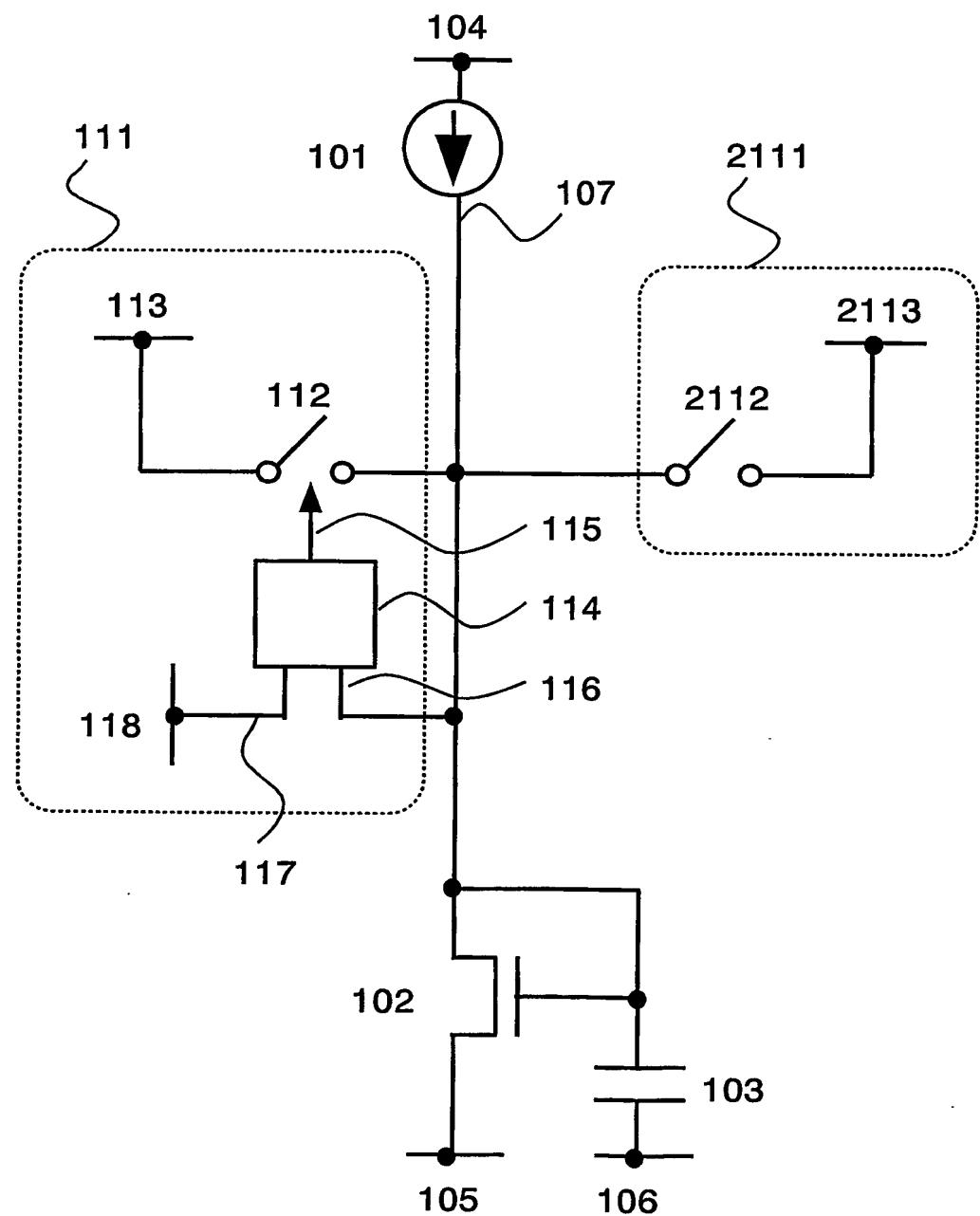


FIG. 21

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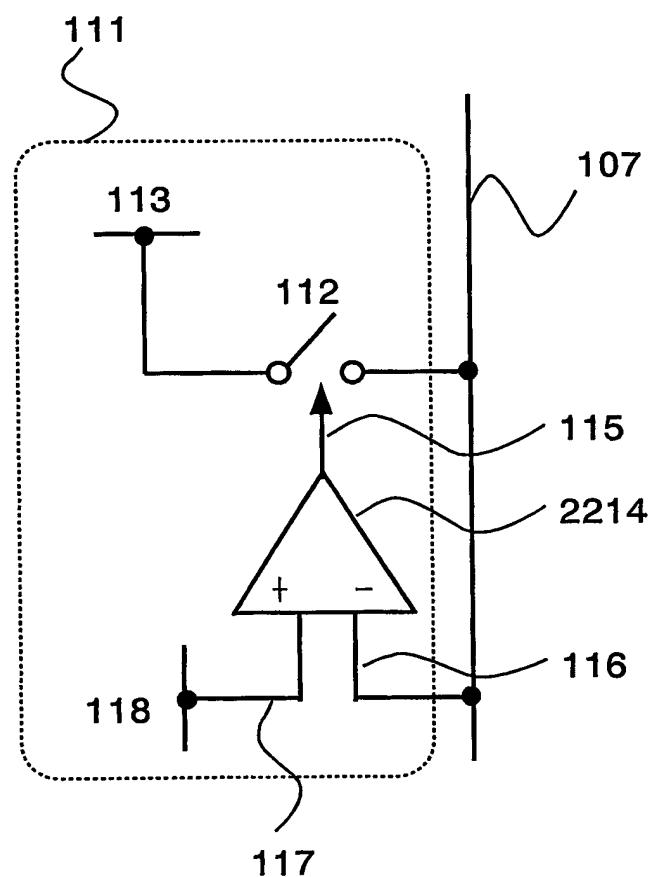


FIG. 22

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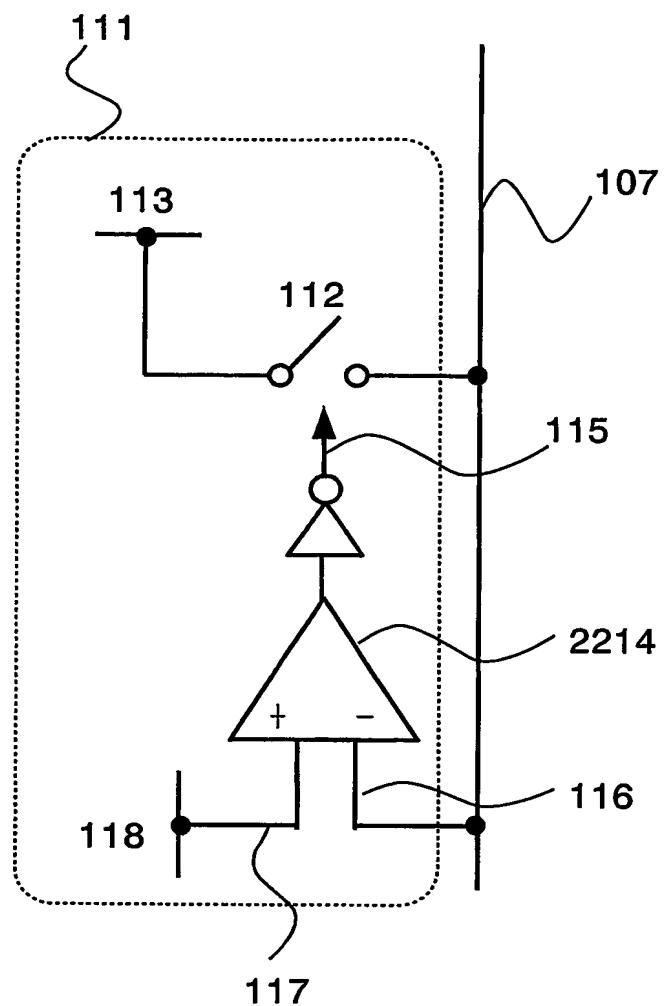


FIG. 23

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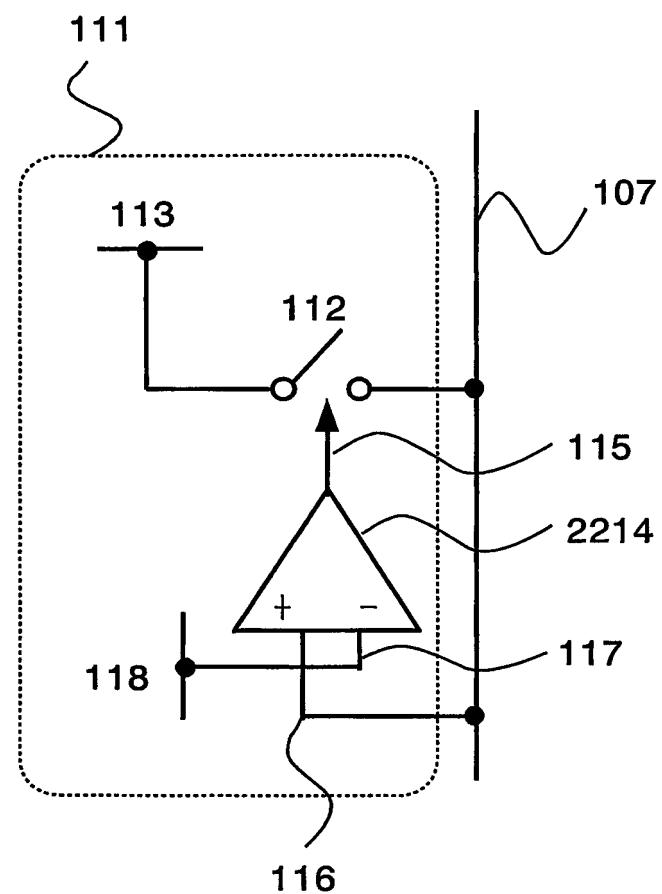


FIG. 24

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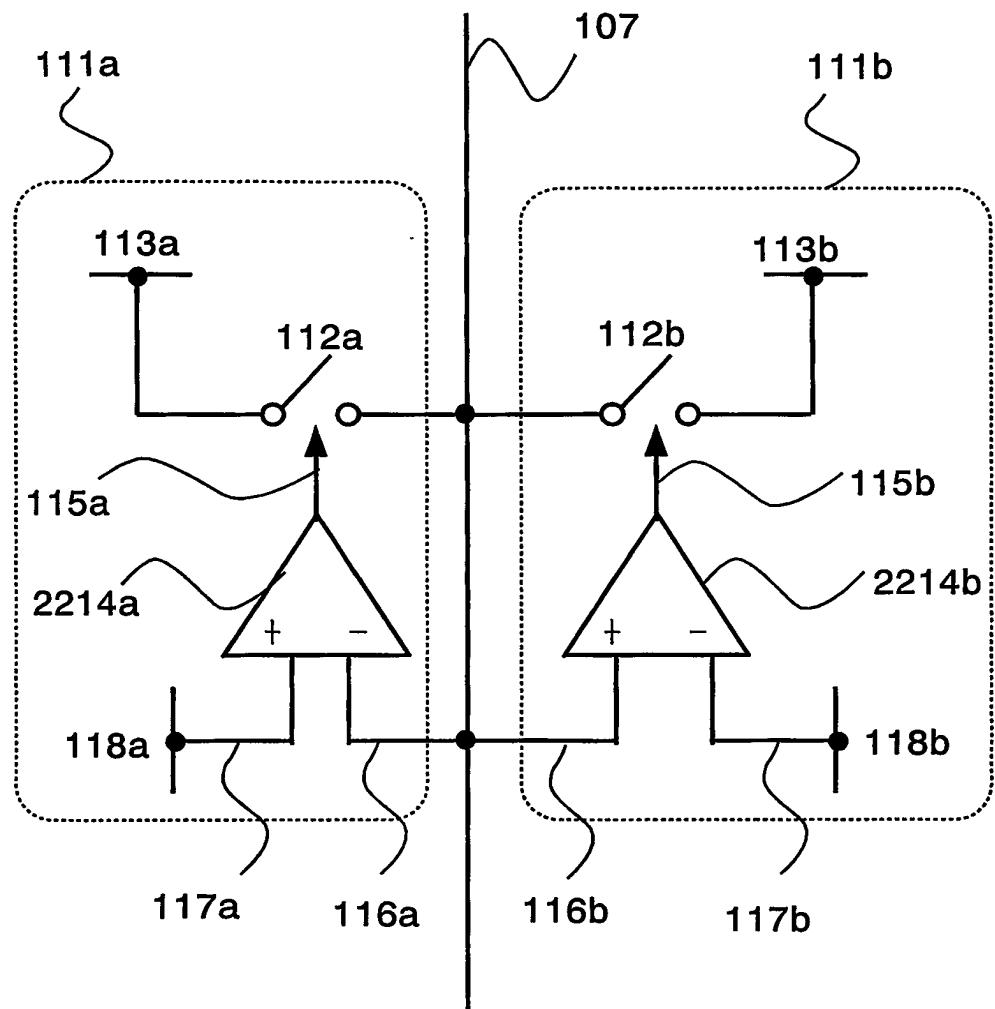


FIG. 25

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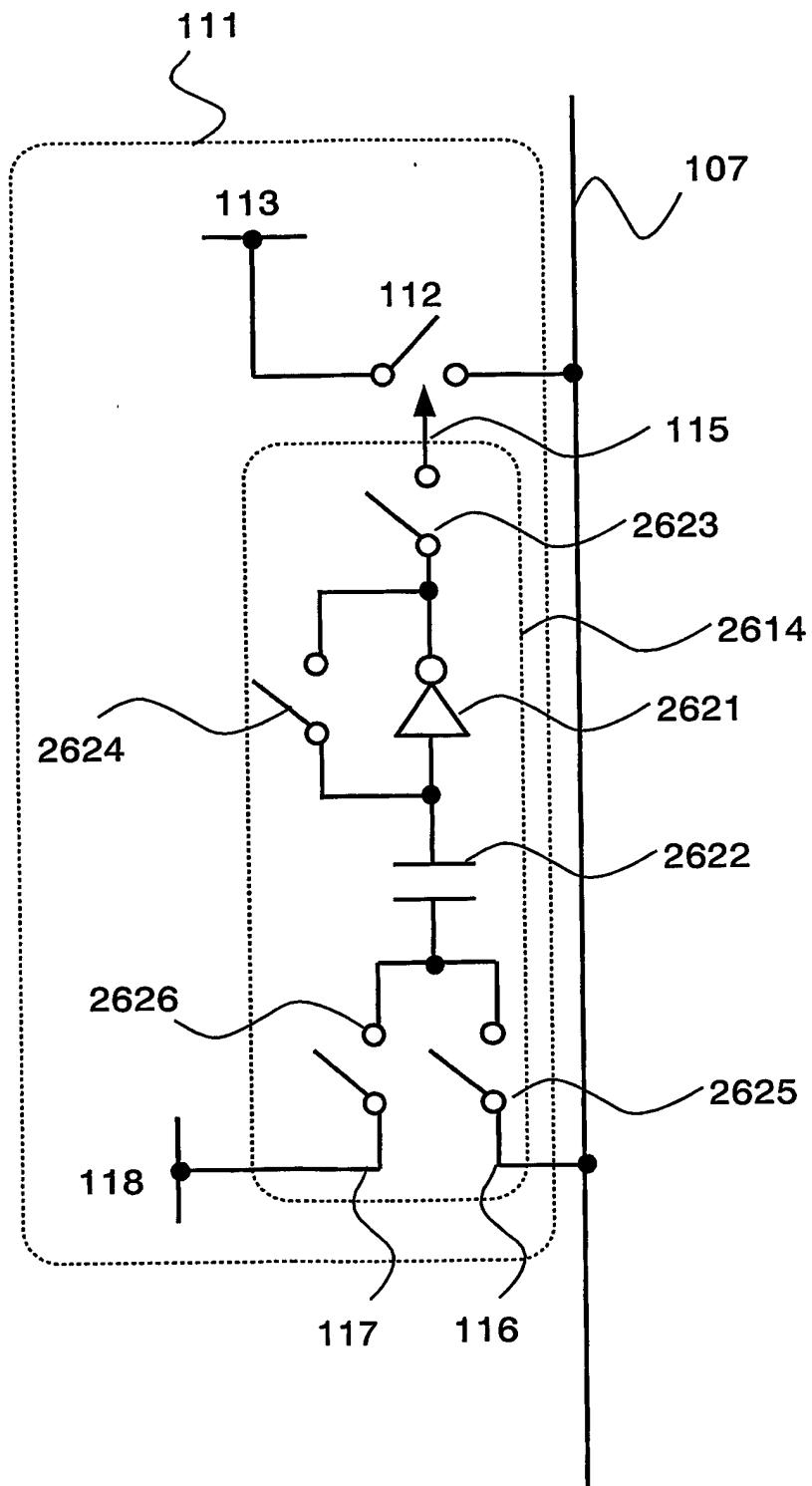


FIG. 26

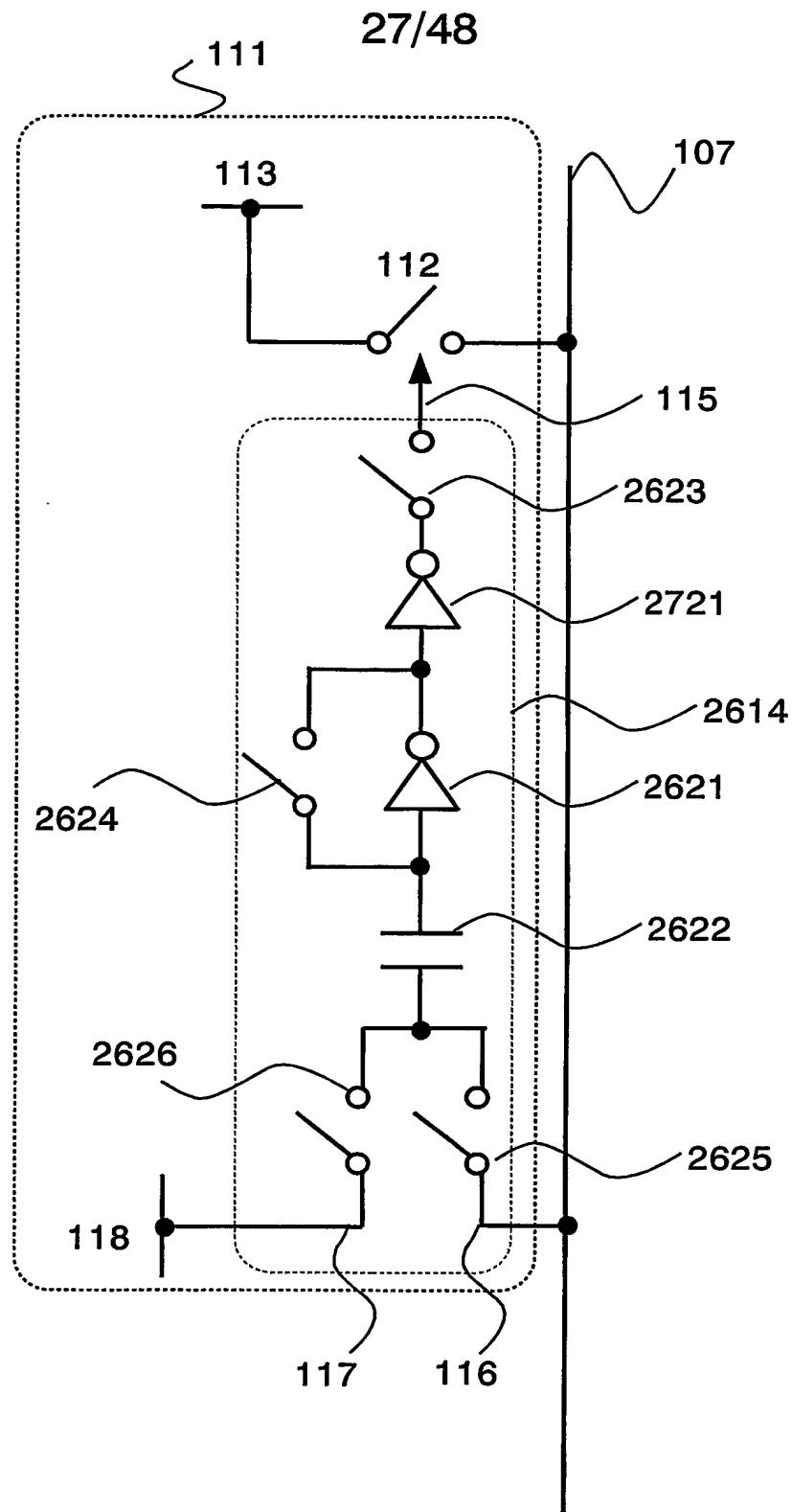


FIG. 27

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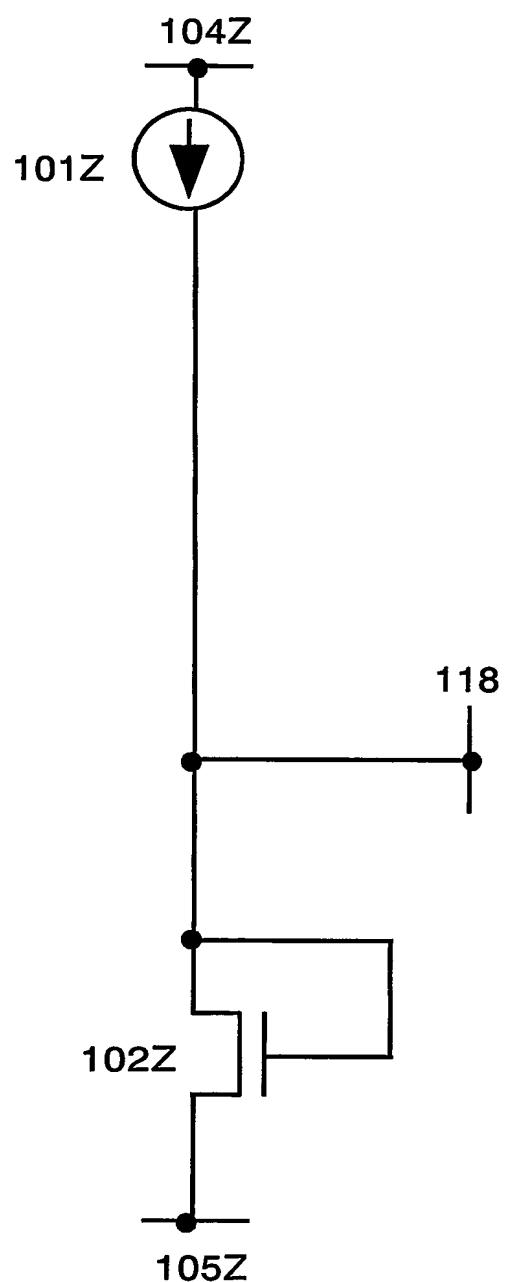


FIG. 28

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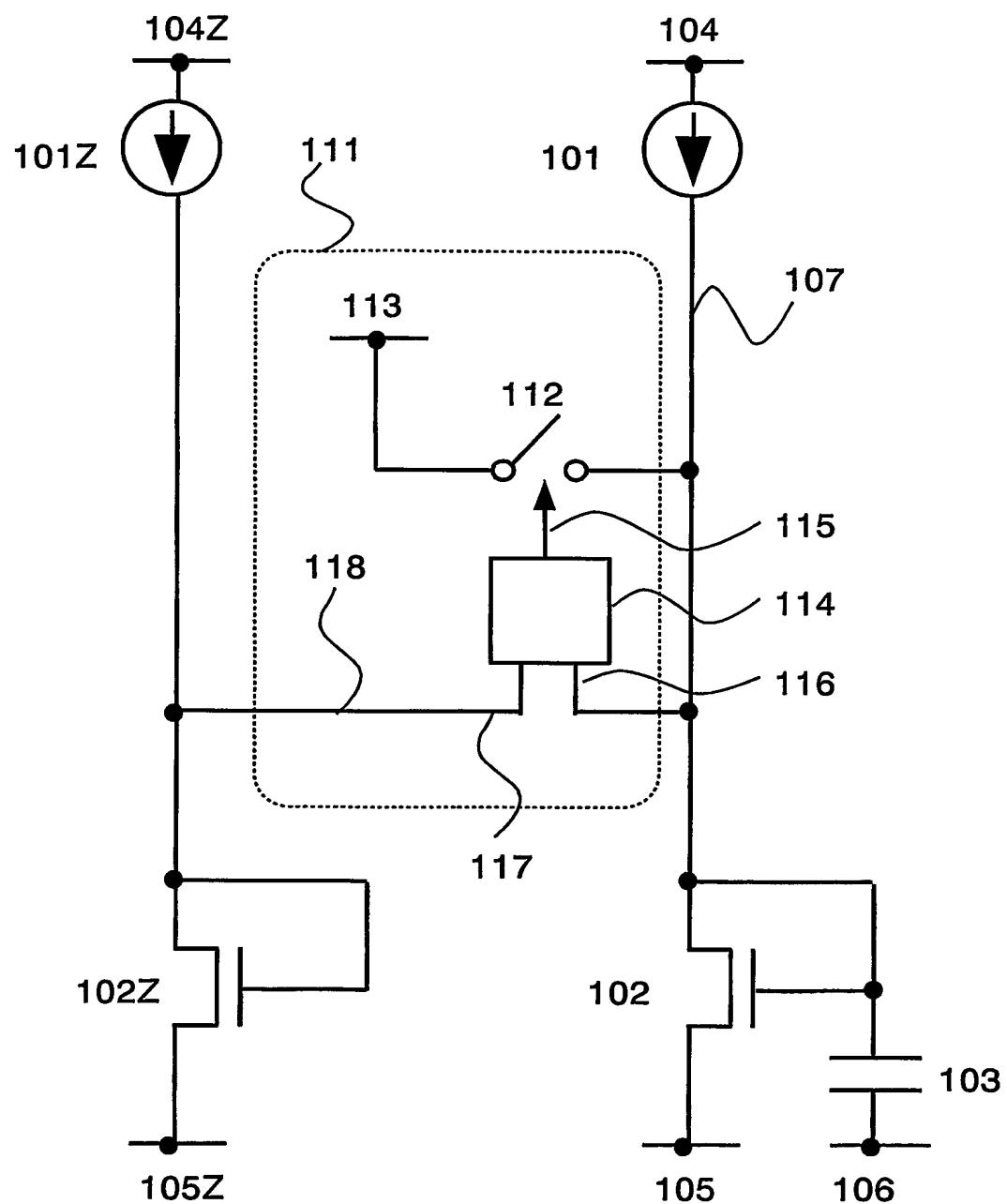


FIG. 29

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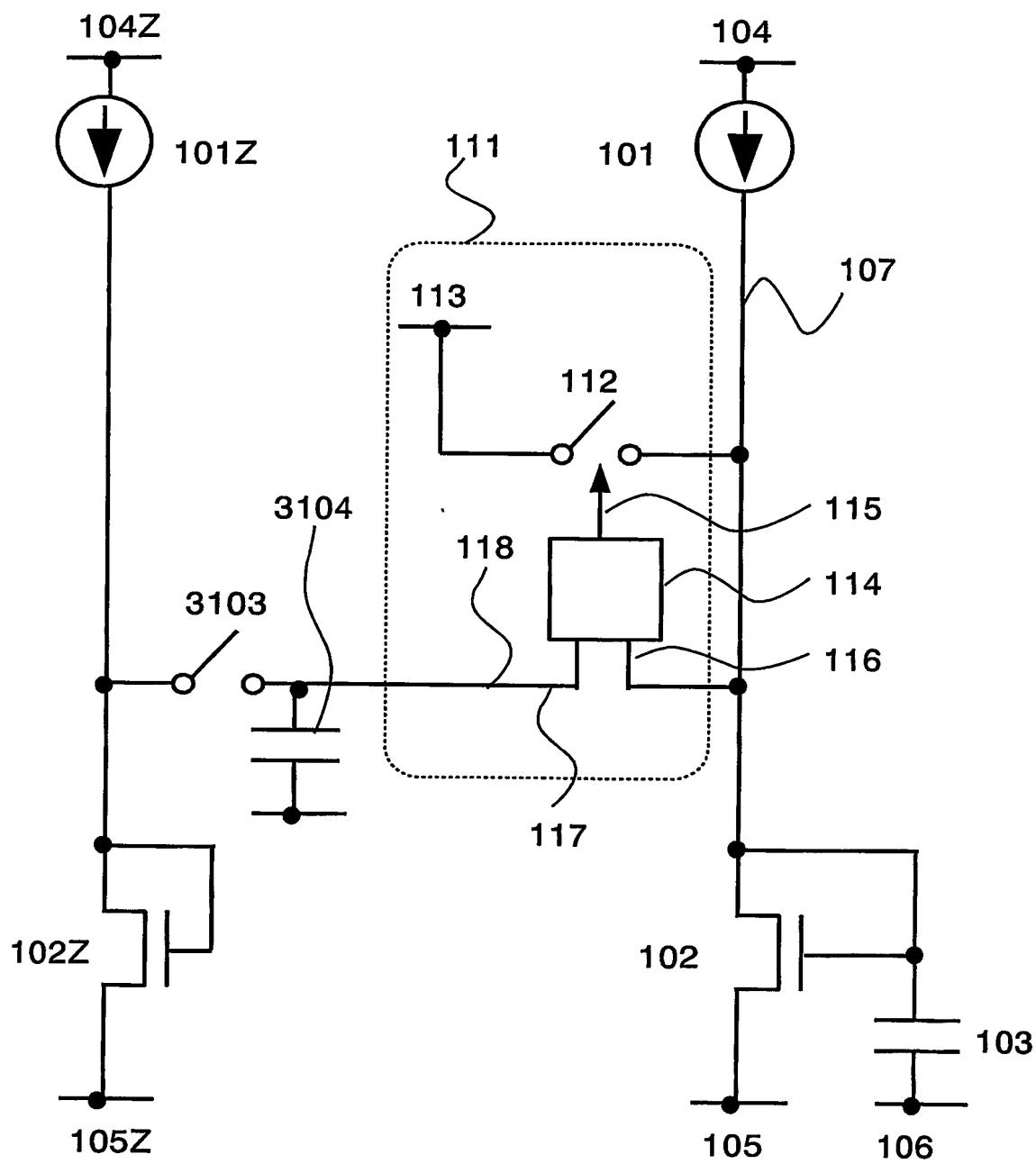


FIG. 30

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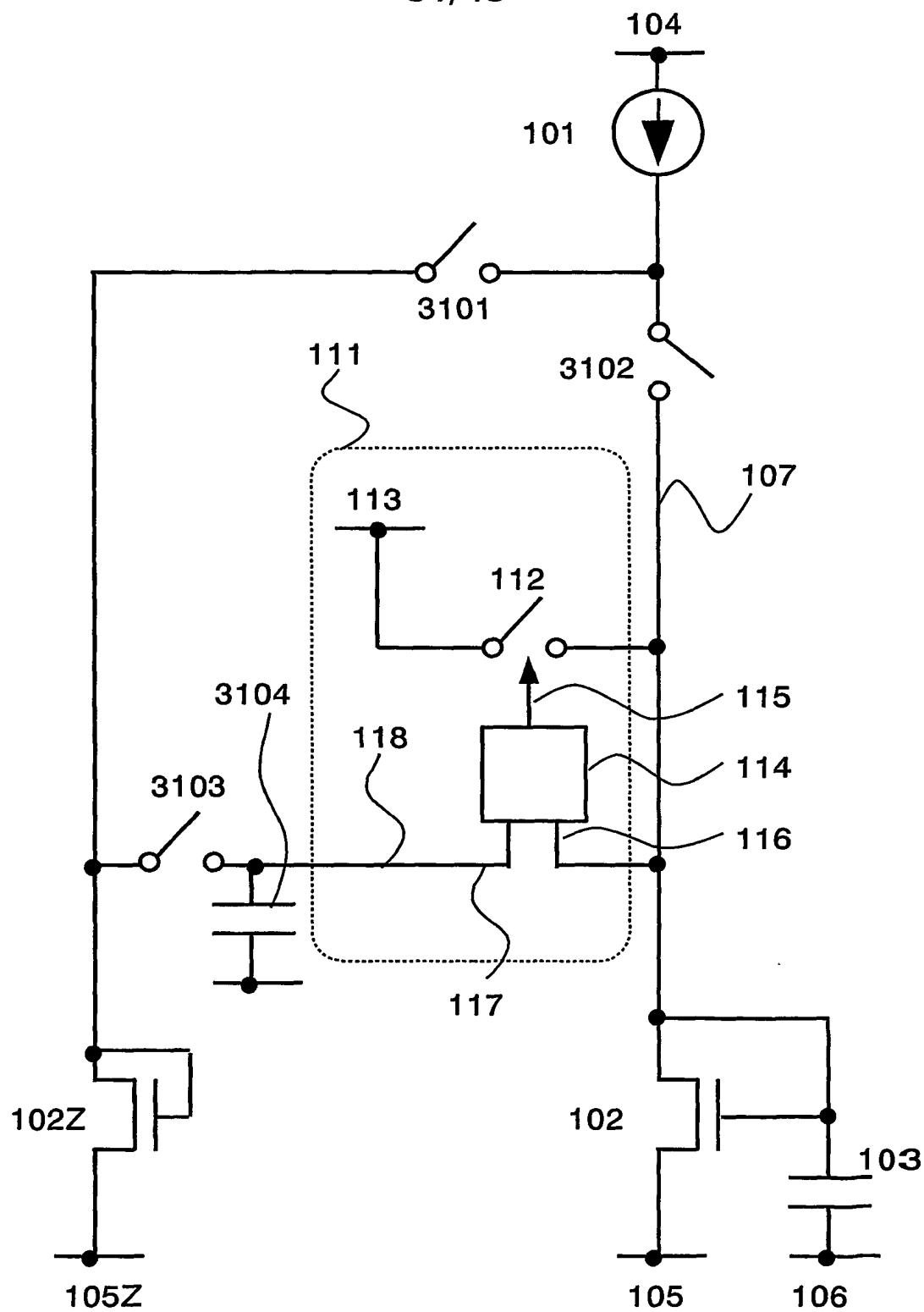


FIG. 31

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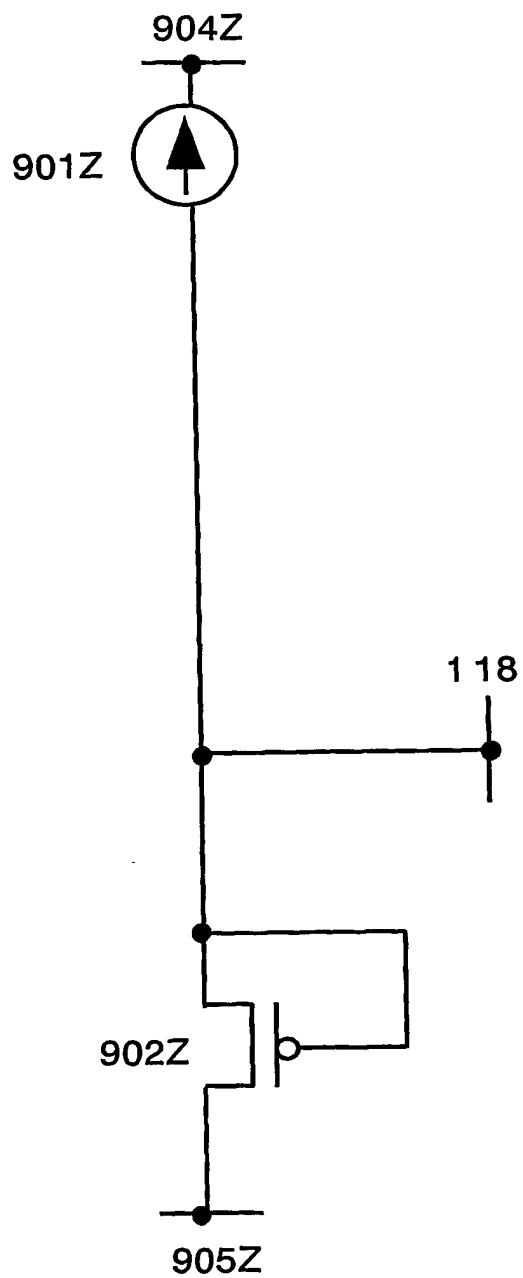


FIG. 32

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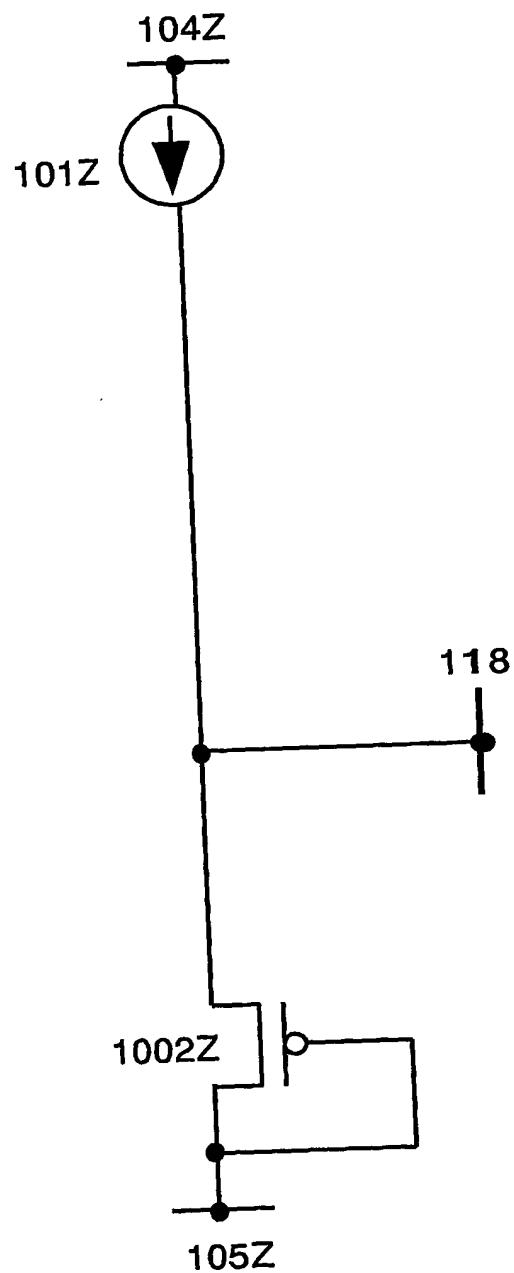


FIG. 33

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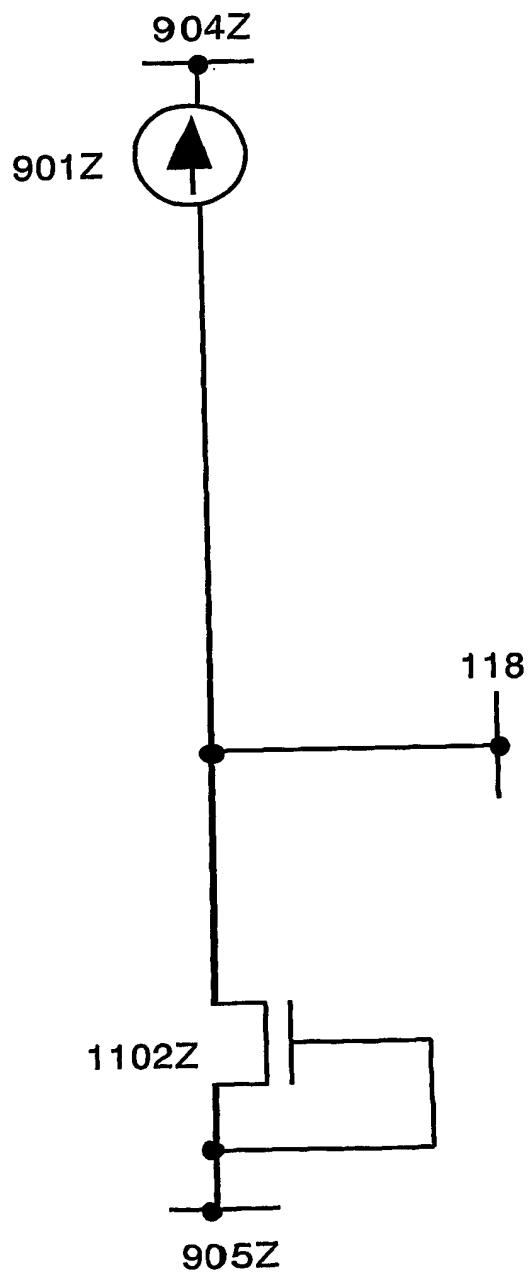


FIG. 34

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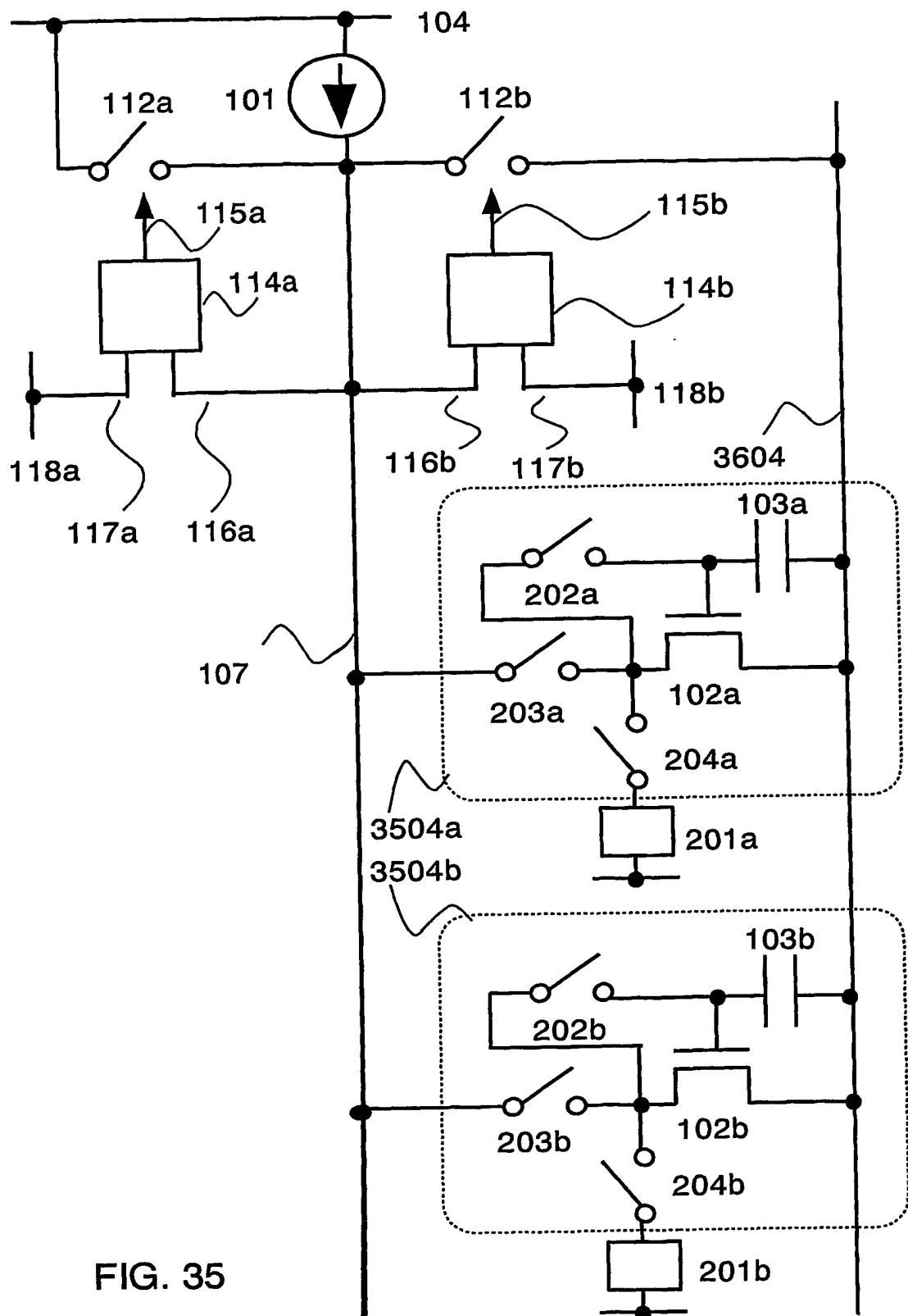


FIG. 35

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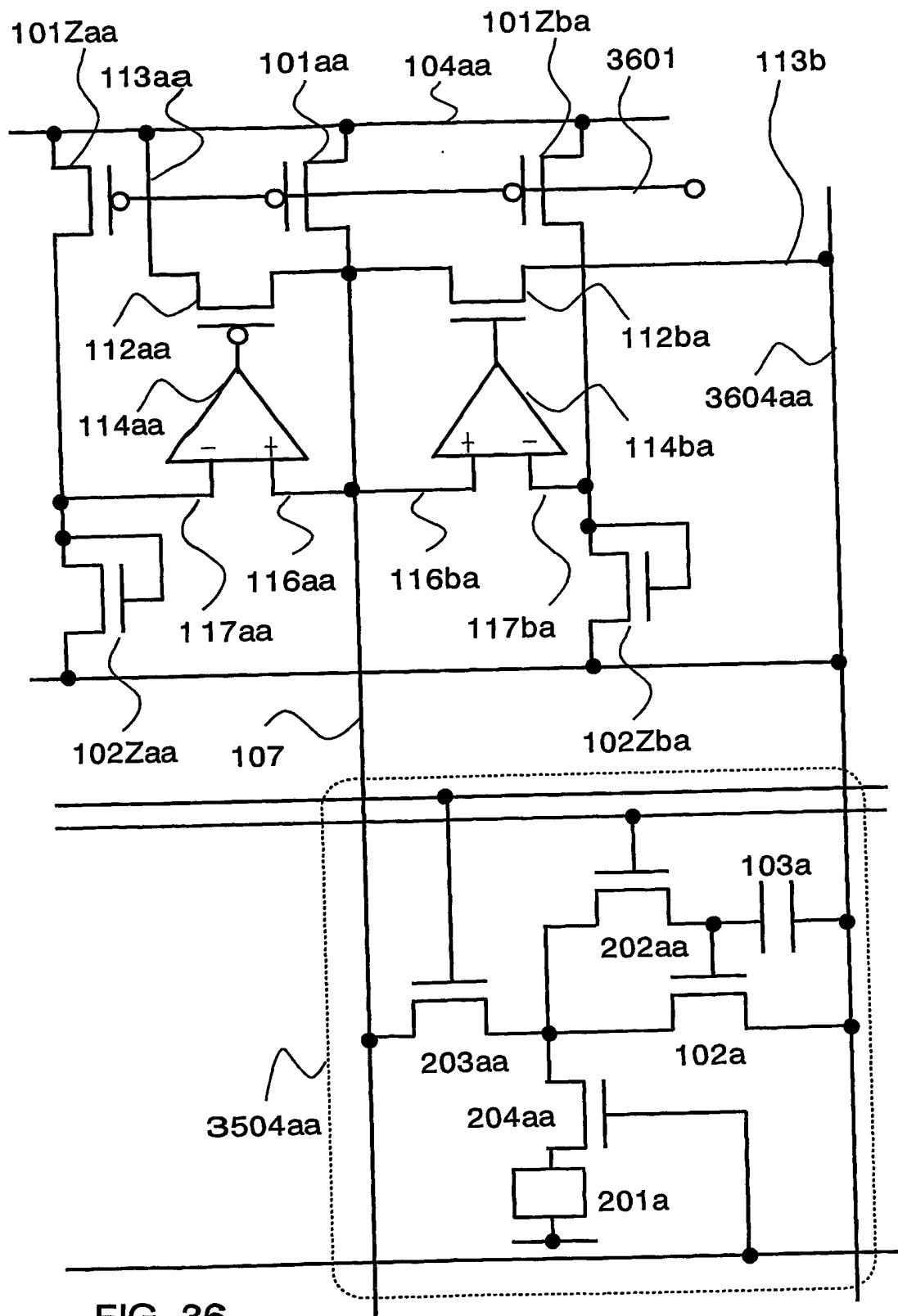


FIG. 36

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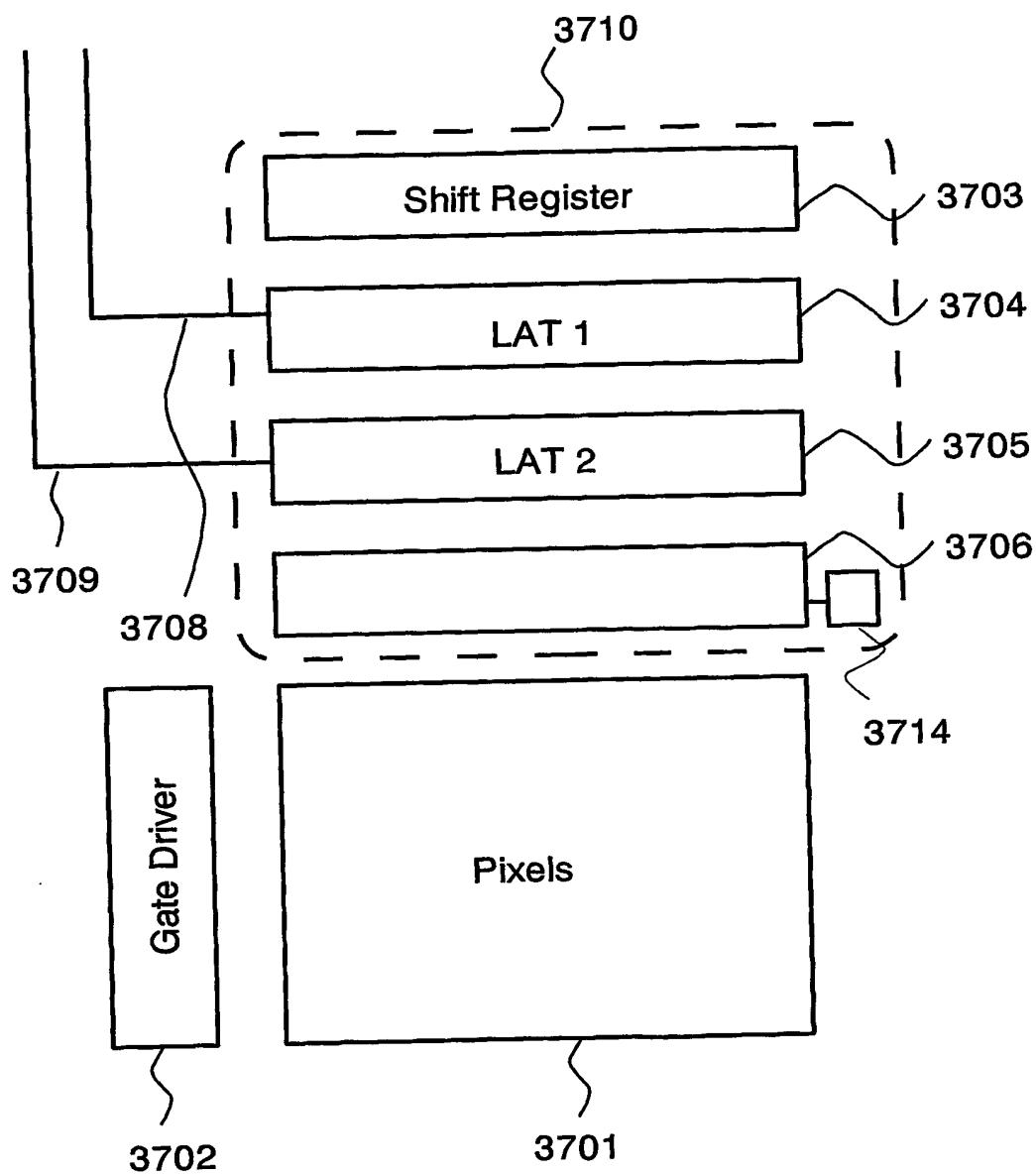


FIG. 37

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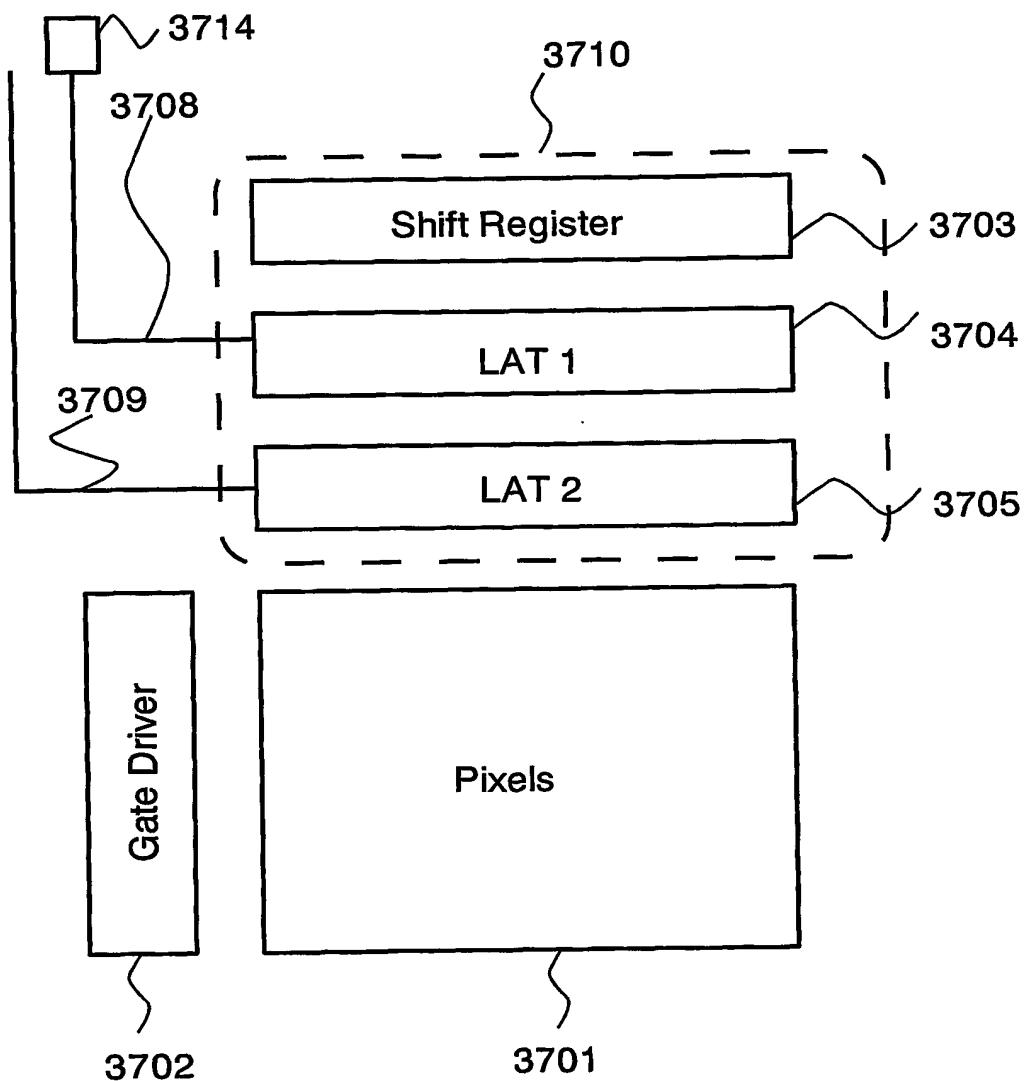


FIG. 38

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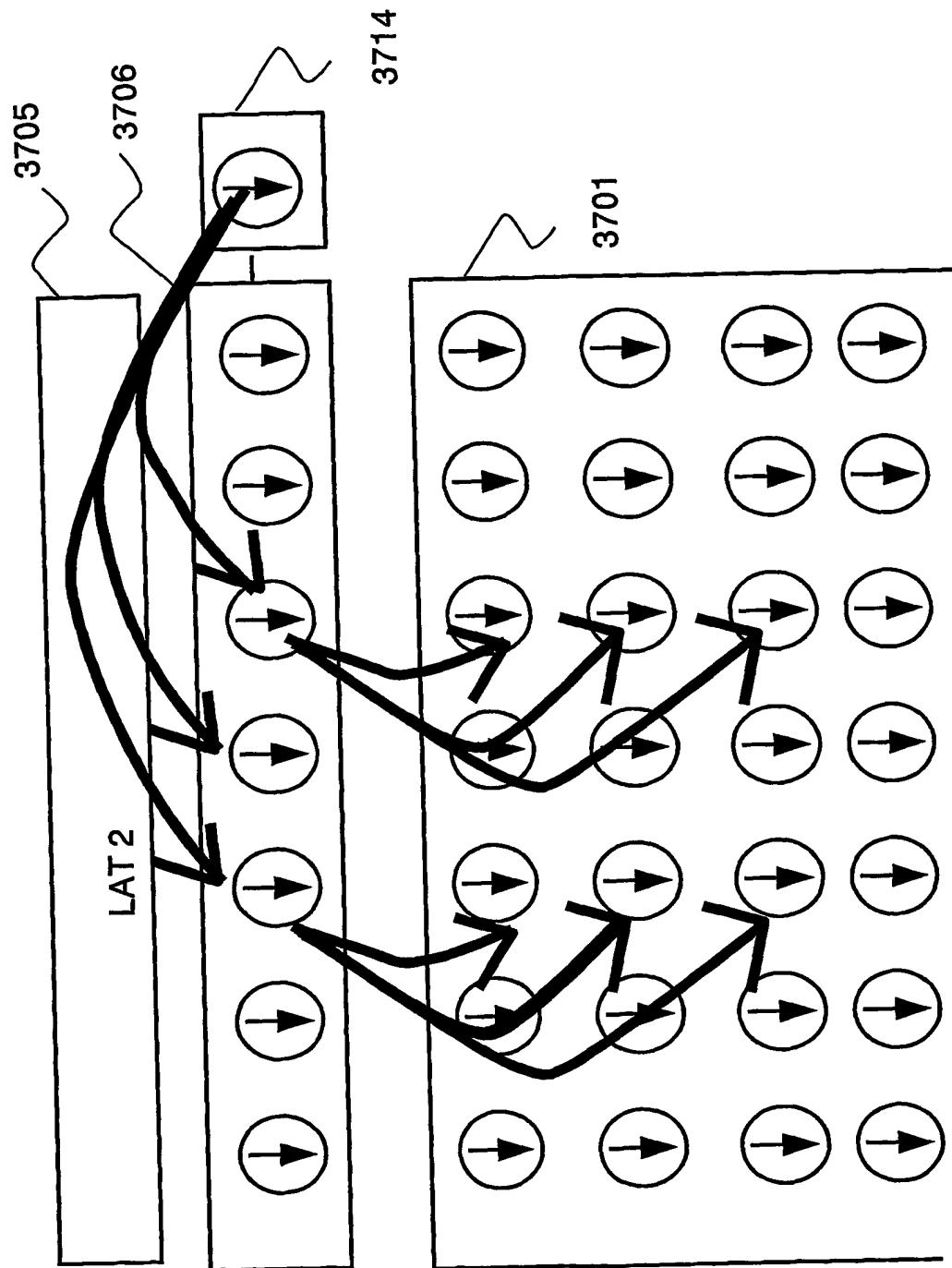


FIG. 39

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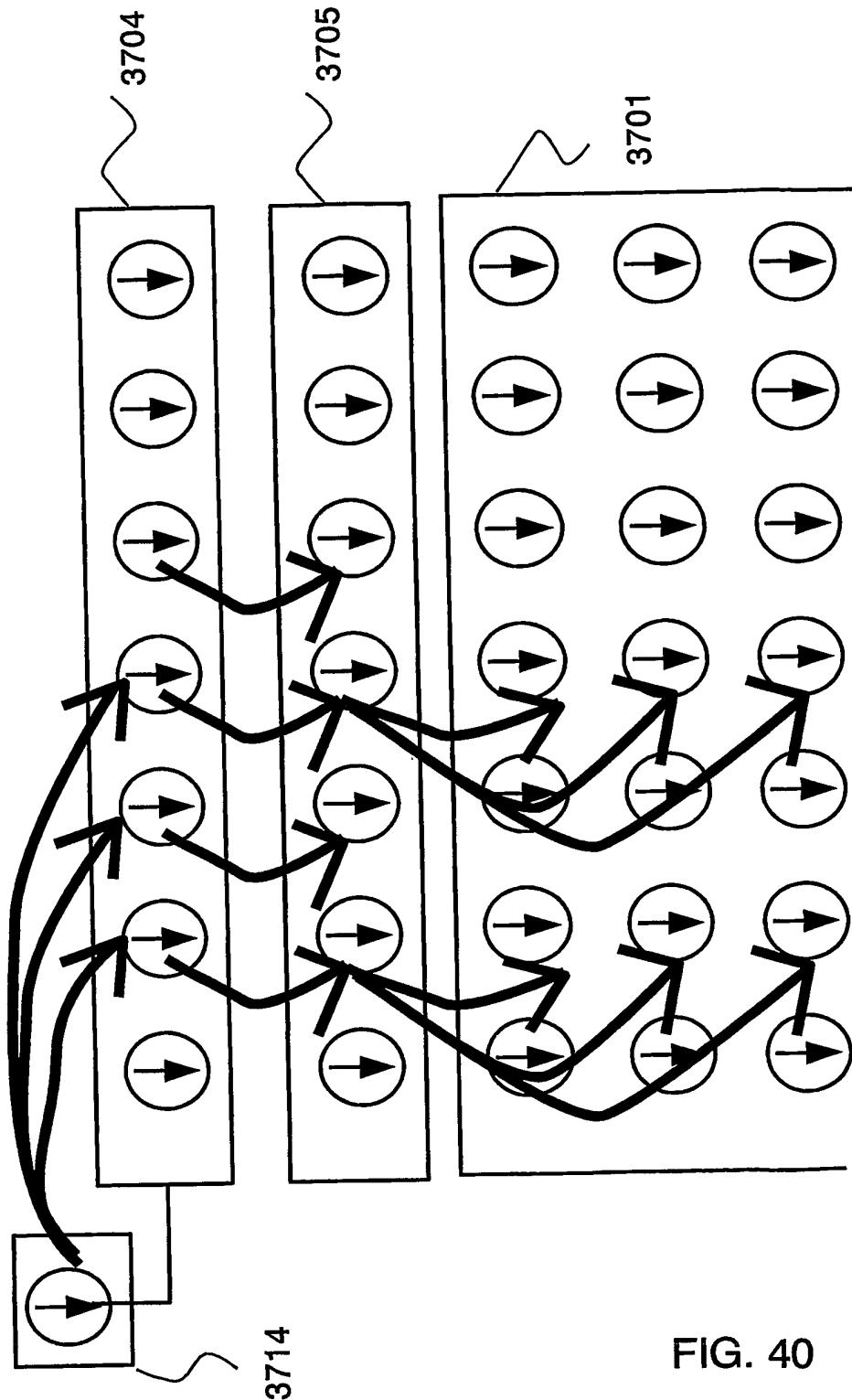


FIG. 40

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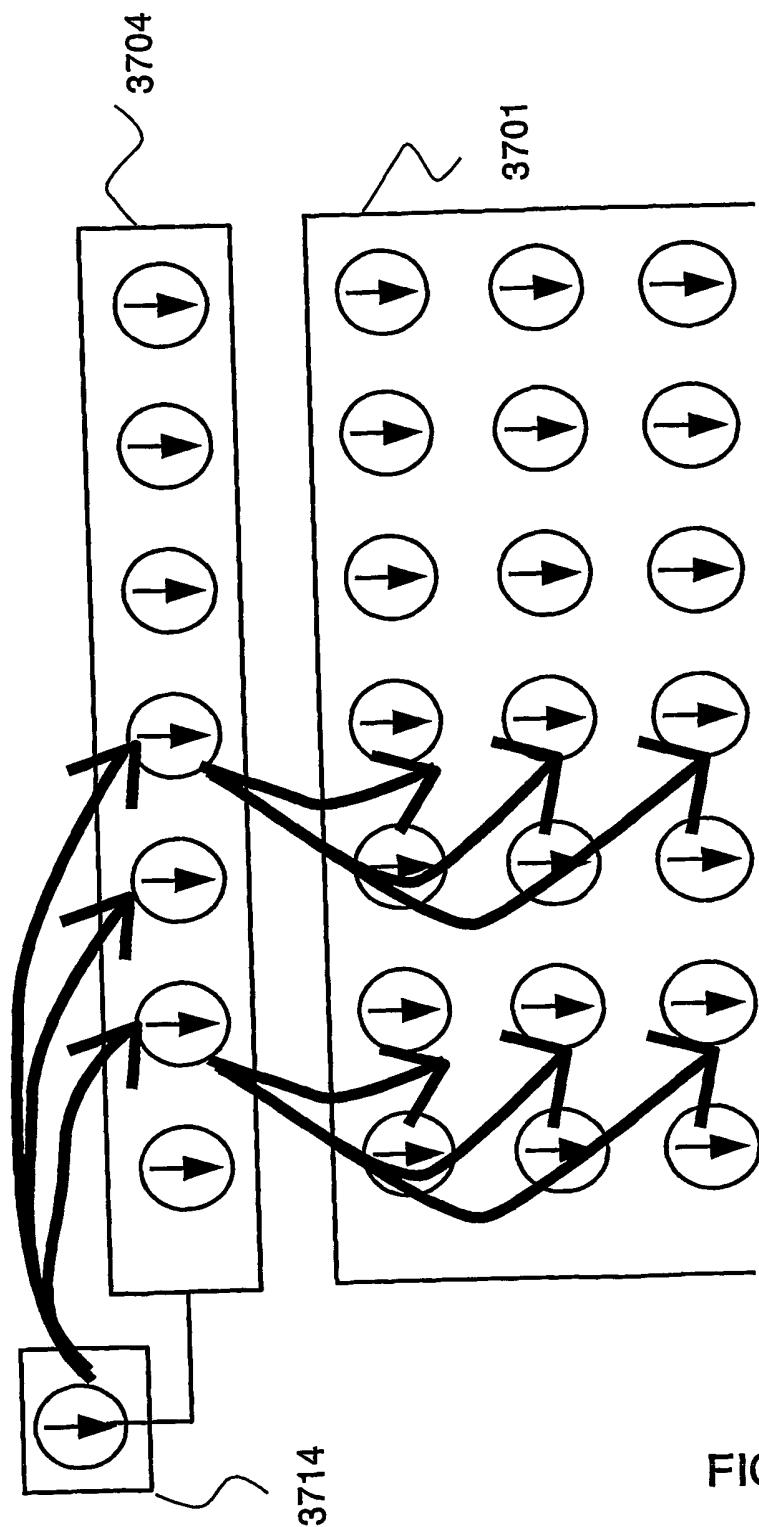


FIG. 41

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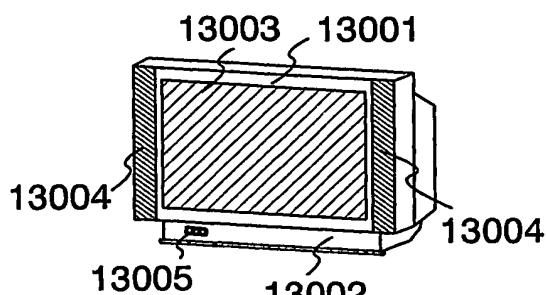


FIG. 42A

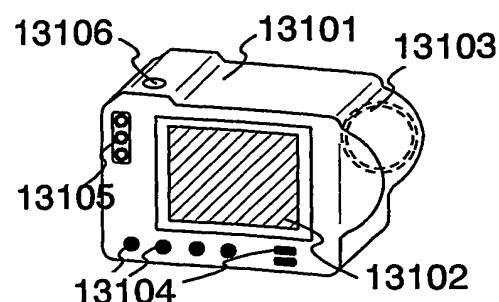


FIG. 42B

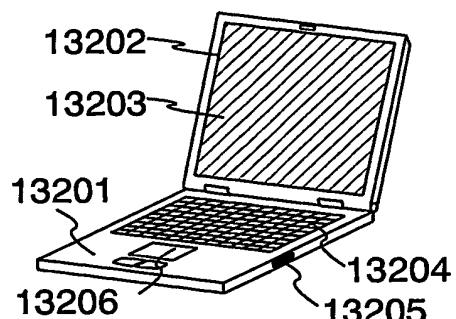


FIG. 42C

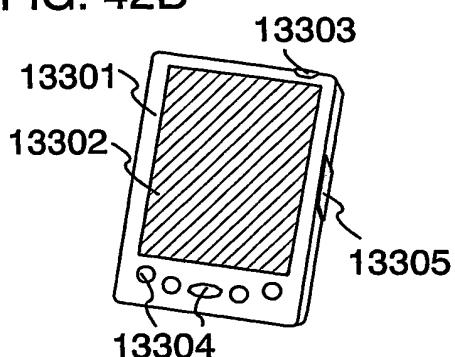


FIG. 42D

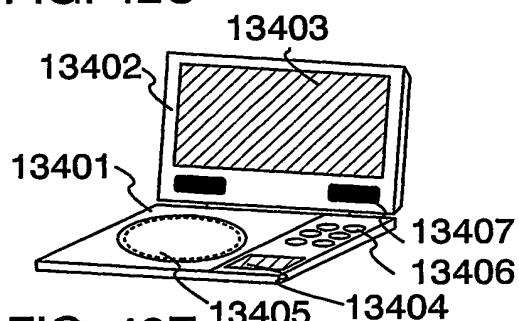


FIG. 42E

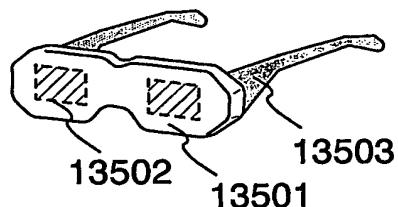


FIG. 42F

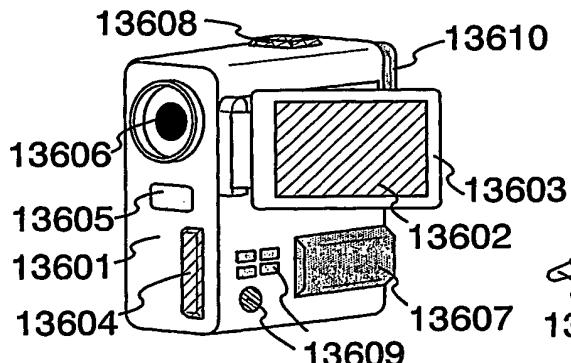


FIG. 42G

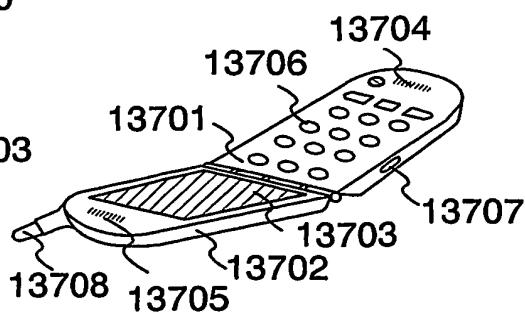


FIG. 42H

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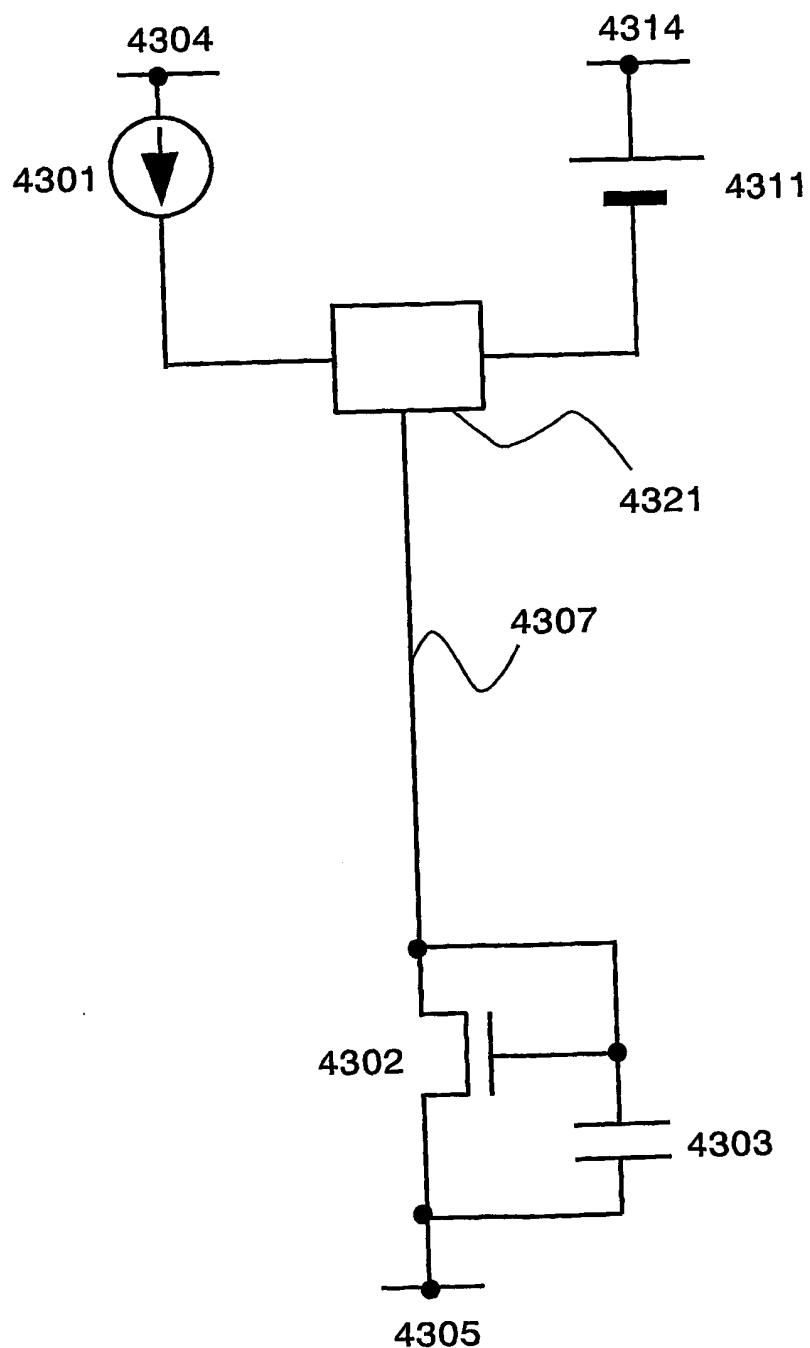


FIG. 43

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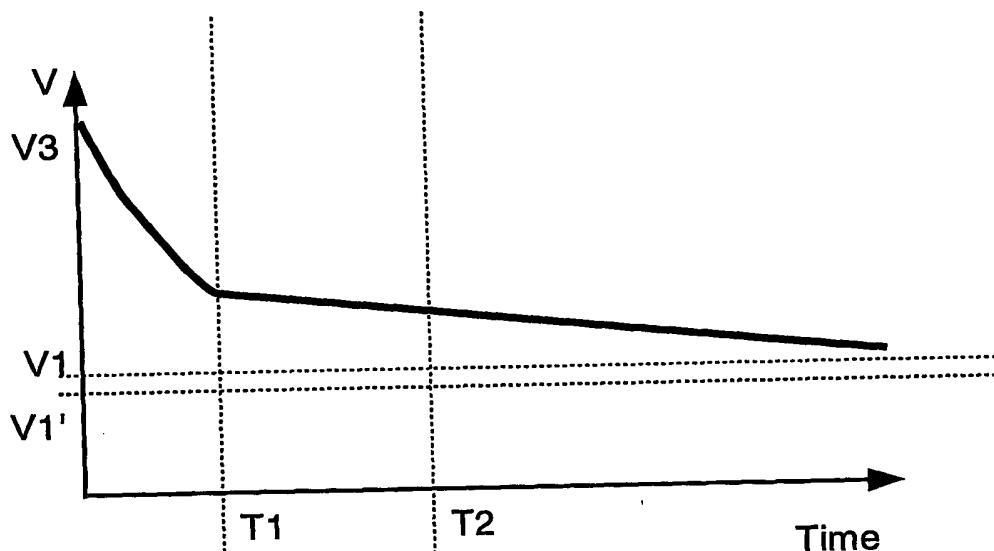


FIG. 44A

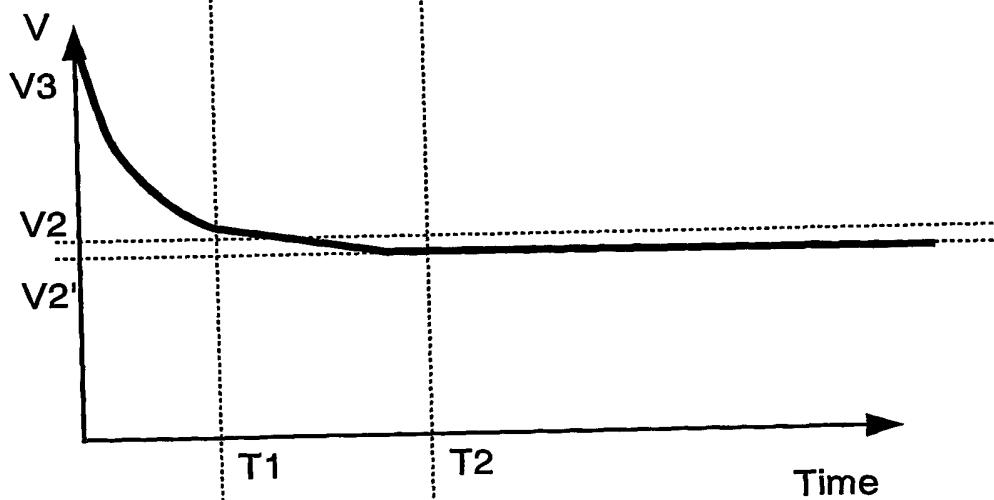


FIG. 44B

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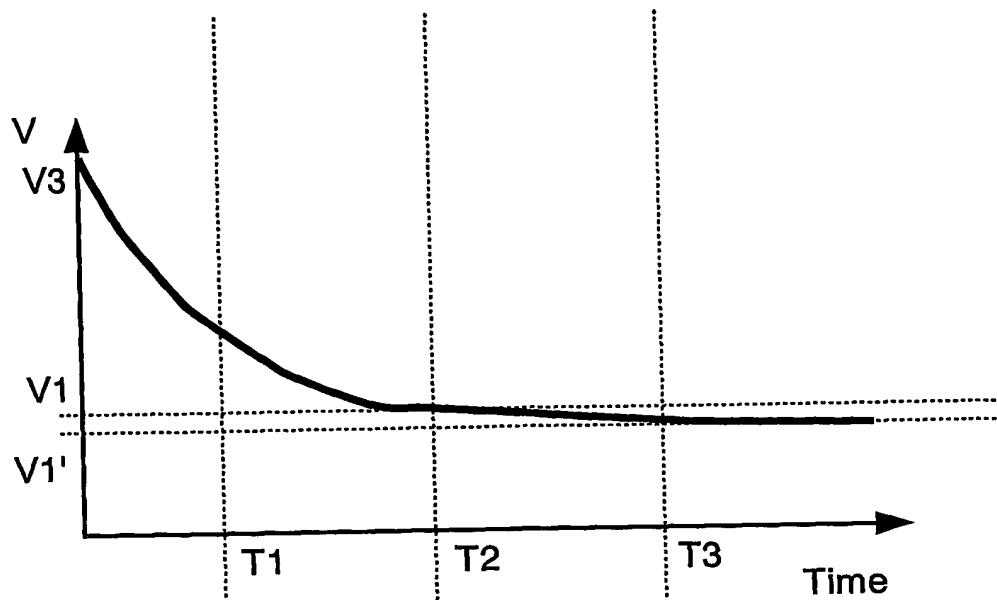


FIG. 45A

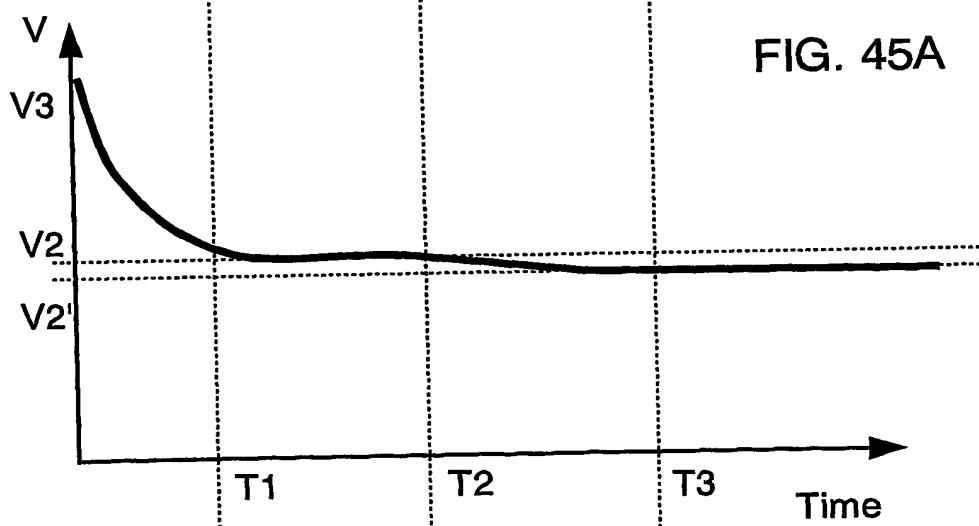


FIG. 45B

## DESCRIPTION OF THE NUMERALS

1002 transistor, 1002Z dummy transistor, 1003 capacitor, 1006 wiring,  
101 current source, 101aa transistor, 101Z dummy current source,  
5 101Zaa transistor, 101Zab transistor, 101Zba transistor, 102 transistor,  
102a transistor, 102aa transistor, 102b transistor, 102Z dummy  
transistor, 102Zaa transistor, 102Zba transistor, 103 capacitor, 103a  
capacitor, 103b capacitor, 104 wiring, 104aa wiring, 104Z wiring,  
105 wiring, 105Z wiring, 106 wiring, 107 wiring, 1102 transistor,  
10 1102Z dummy transistor, 1103 capacitor, 1106 wiring, 111 precharge  
circuit, 111a precharge circuit, 112 precharge switch, 112a precharge  
switch, 112aa P-channel transistor, 112b precharge switch, 112ba  
N-channel transistor, 113 wiring, 113a wiring, 113aa wiring, 113b  
wiring, 114 comparison control circuit, 114a comparison control circuit,  
15 114aa operational amplifier, 114b comparison control circuit, 114ba  
operational amplifier, 115 output terminal, 115a output terminal, 115b  
output terminal, 116 input terminal, 116a input terminal, 116aa input  
terminal, 116b input terminal, 116ba input terminal, 117 input terminal,  
117a input terminal, 117aa input terminal, 117b input terminal, 117ba  
input terminal, 118 wiring, 118a wiring, 118b wiring, 1201 voltage  
20 source, 1204 wiring, 13001 housing, 13002 support base, 13003  
display portion, 13004 speaker portions, 13005 video input terminal, 1301  
current source, 1304 wiring, 13101 main body, 13102 display portion,  
13103 image receiving portion, 13104 operating keys, 13105 external  
25 connecting port, 13106 shutter, 13201 main body, 13202 housing,  
13203 display portion, 13204 keyboard, 13205 external connecting port,  
13206 pointing mouse, 13301 main body, 13302 display portion, 13303  
switch, 13304 operating keys, 13305 infrared port, 13401 main body,

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13402 housing, 13403 display portion A, 13404 display portion B, 13406  
operating key, 13407 speaker portion, 13501 main body, 13502 display  
portion, 13503 arm portion, 13601 main body, 13602 display portion,  
13603 housing, 13604 external connecting port, 13605 remote control  
5 receiving portion, 13606 image receiving portion, 13607 battery, 13608  
audio input portion, 13609 operating keys, 13701 main body, 13702  
housing, 13703 display portion, 13704 audio input portion, 13705 audio  
output portion, 13706 operating key, 13707 external connecting port,  
13708 antenna, 1501 graph, 1502 graph, 1503 graph, 1612 switch,  
10 1714 control circuit, 1715 output terminal, 1717 input terminal for control,  
1811 precharge circuit, 1812a precharge switch, 1812b precharge switch,  
1813a wiring, 1813b wiring, 1814 comparison control circuit, 1815a  
output terminal, 1815b output terminal, 1816 input terminal, 1817 input  
terminal, 1818 wiring, 1901a voltage source, 1901b voltage source,  
15 1904a wiring, 1904b wiring, 1912a switch, 1912b switch, 201  
load, 2013 circuit, 2014 comparison control circuit, 2015 output terminal,  
2016 input terminal, 2017 input terminal, 2018 wiring, 201a load,  
202 switch, 2020 terminal, 2021 terminal, 202a switch, 202aa  
transistor, 201b load, 202b switch, 203 switch, 203a switch,  
20 203aa transistor, 203b switch, 204 switch, 204a switch, 204aa  
transistor, 204b switch, 2111 precharge circuit, 2112 switch, 2113  
wiring, 2214 operational amplifier, 2214a operational amplifier, 2214b  
operational amplifier, 2614 chopper inverter comparator, 2621 inverter,  
2622 capacitor, 2623 switch, 2624 switch, 2625 switch, 2626  
25 switch, 2721 inverter, 302 transistor, 3101 switch, 3102 switch,  
3103 switch, 3104 capacitor, 3504a unit circuit, 3504aa unit circuit,  
3504b unit circuit, 3601 wiring, 3604 wiring, 3604aa wiring, 3701  
pixels, 3702 gate driver, 3703 shift register, 3704 latch circuit, 3705

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latch circuit, 3706 digital-analog converter circuit, 3708 video signal line,  
3709 latch control line, 3710 signal driver circuit, 3714 reference current  
source circuit, 4301 current source, 4302 transistor, 4303 capacitor,  
4304 wiring, 4305 wiring, 4307 wiring, 4311 voltage source, 4314  
5 wiring, 4321 means, 501 switch, 601 source signal line, 602 first  
gate signal line, 603 second gate signal line, 604 third gate signal line, 605  
current supply line, 606 TFT, 607 TFT, 608 TFT, 609 TFT, 610  
capacitor, 611 EL element, 612 current source for inputting a video signal,  
901 current source, 901Z dummy current source, 902 transistor, 902Z  
10 dummy transistor, 903 capacitor, 904 wiring, 904Z wiring, 905  
wiring, 905Z wiring, 906 wiring, 907 wiring.